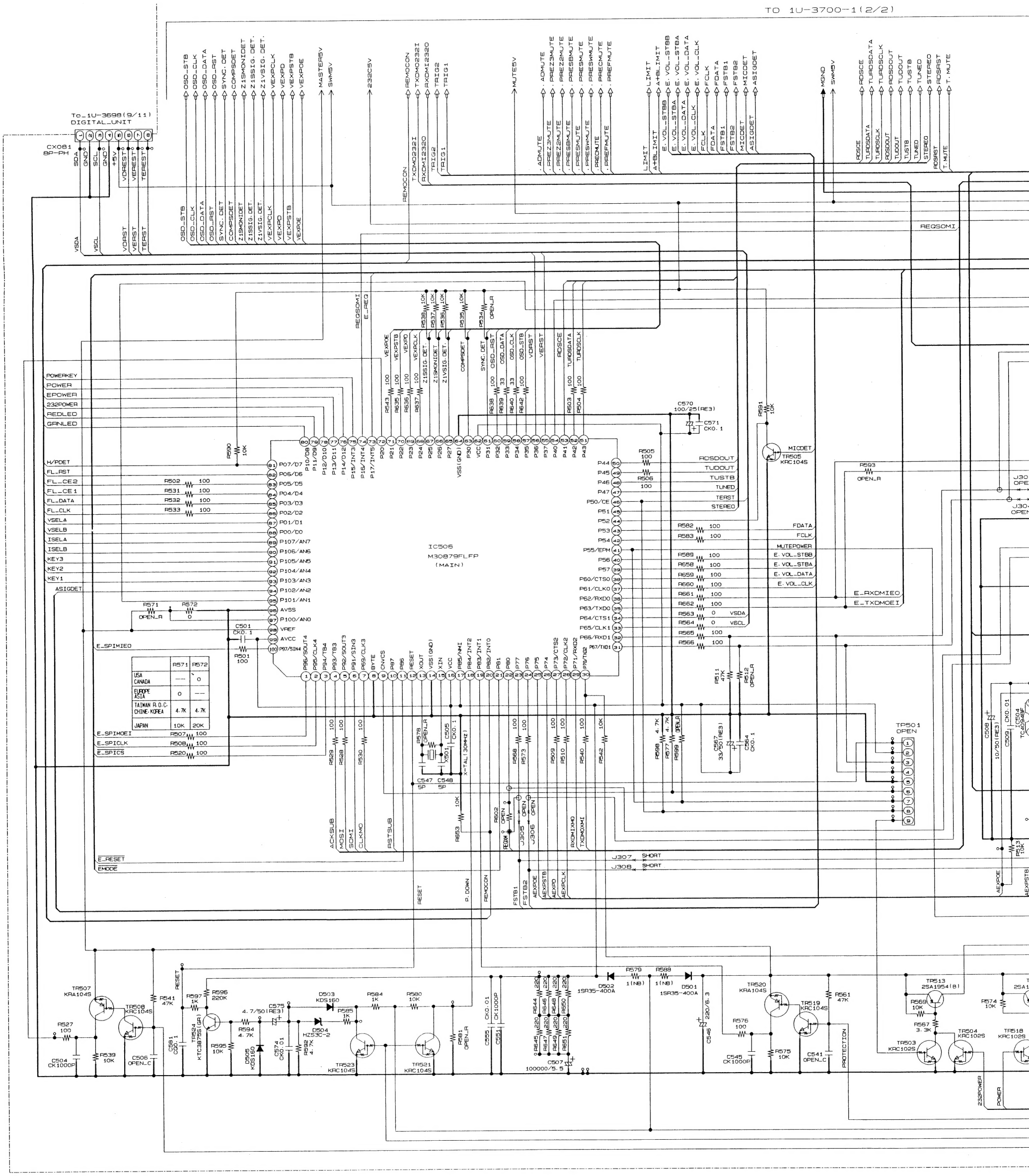
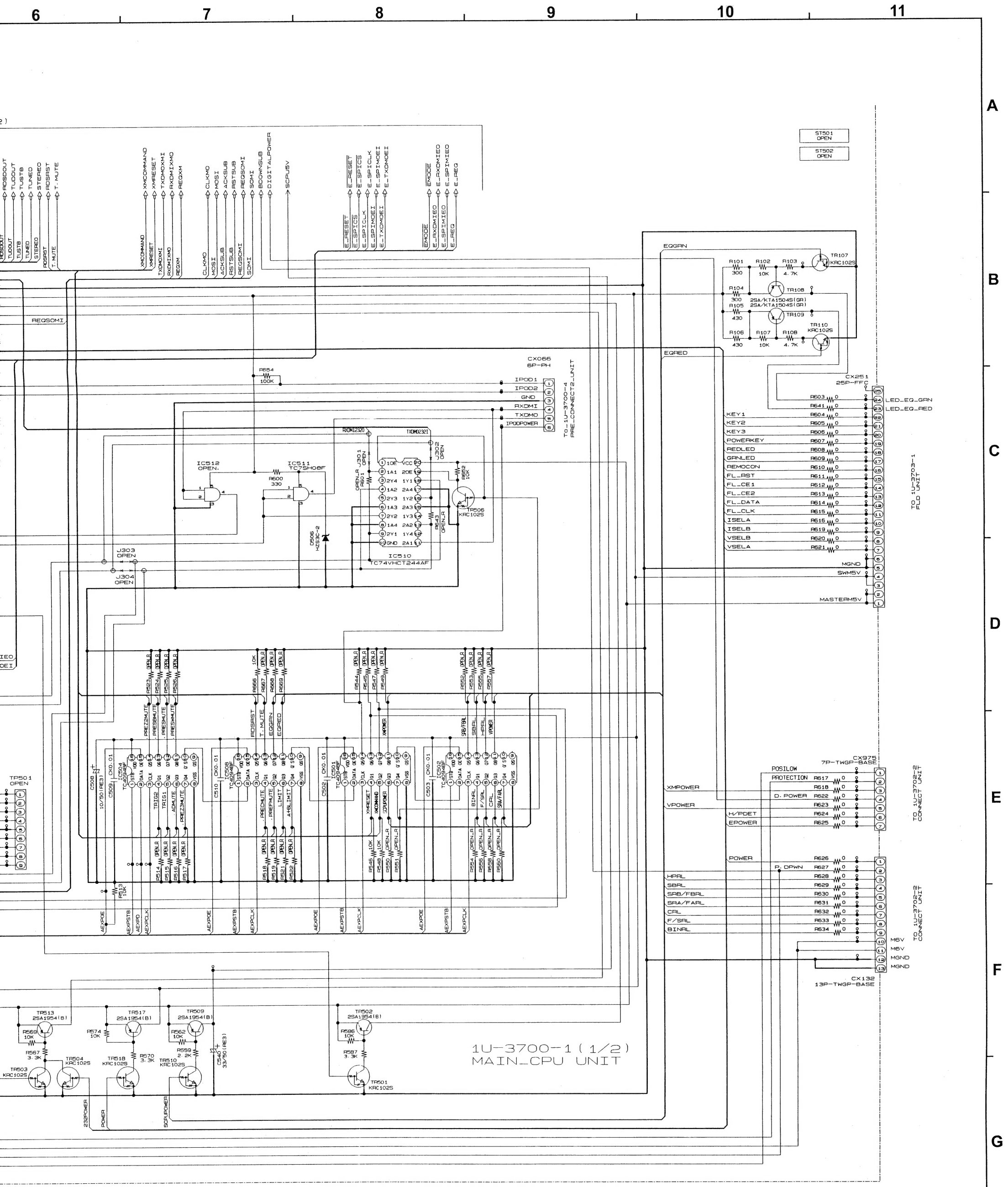
SCHEMATIC DIAGRAMS (1/34)

1 2 3 4 5 6





SCHEMATIC DIAGRAMS (1/34)
1U-3700-1 MAIN CPU UNIT (1/2)

447

1 2 3 4 5 6

1U-3700-1(2/2)
MAIN_CPU UNIT

TO_AUDIO_UNIT
1U-3743-1

TO DIGITAL IN
1U-3700-2

TO 232C UNIT
1U-3703-13

TO PREOUT
1U-3700-3

VIDEO

CW912
11P-JE-BASE
TO_1U-3703-13
232C UNIT
PHONOR
PHONOL
CDR
CDL
GND
-15V
+15V

CX115
11P-TUCP-BASE
TO_1U-3743-1(1/4)
AUDIO_UNIT

CW913
11P-JE-BASE
TRIG2
TRIG1
TRIG12V
REMOCON
RXDMI2320
TXDMO232I
MGND
MGND
MASTER5V
+5V232

CX133
13P-TUCP-BASE
DASBRSWMUTE
DASBLCMUTE
DAFRSAMUTE
DASLFLMUTE
ADGND
ADINR
ADGND
ADINL
ADGND
A-15V
A-15V
A+15V
A+15V

CX154
15P-TUCP-BASE
DASBR
DA-AGND
DASW
DA-AGND
DAC
DA-AGND
DASBL
DA-AGND
DASR
DA-AGND
DAFR
DA-AGND
DAFL
DA-AGND
DASL

CX116
11P-TUCP-BASE
DAZ3R
DAZ3L
DAZ2R
DAZ2L
DAZ2MUTE
DAZ3MUTE

CX967
6P-TUCP-BASE
D.IN
ZONE2
ZONE3
DREC
DGND
D3.3V

CX114
11P-TUCP-BASE
DINA
DINB
DINC
DRECA
DRECB
DRECC
DRECINH
DZ3A
DZ3B
DZ3C
Z3INH

CX161
16P-TUCP-BASE
+15V
TUNER_L
TUNER_GND
TUNER_R
MGND
SWM5V
T.MUTE
RDSRST
RDSCE
TURDSDATA
TURDSCLK
RDSDOUT
TUDOUT
TUSTB
TUNED
STEREO
AVR_MODEL ONLY

CX141
14P-TUCP-BASE
HIGH+B(MUTE)
MUTE5V
MUTEGND
.ADMUTE
.PREZ3MUTE
.PREZ2MUTE
.PRESBMUTE
PRESMUTE
.PRESWMUTE
.PREOMUTE
PREFMUTE
ADMUTE
-15V

CX152
16P-TUCP-BASE
HIGH+B(MUTE)
PRECPUGND
PRECPUGND
LIMIT
A+BLIMIT
E.VOL_STBB
E.VOL_STBA
E.VOL_DATA
E.VOL_CLK
FCLK
FDATA
FSTB1
FSTB2
ADMUTE
MICDET
ASIGDET

CX252
25P-FFC
OSD_STB
OSD_CLK
OSD_DATA
OSD_RST
SYNC.DET
COMPSDET
Z1SMONIDET
Z1SSIG.DET.
Z1VSIG.DET.
VEXPCLK
VEXPD
VEXPSTB
VEXPOE
IPODSY
IPODGND
IPODSC
IPODGND
VAUXV
VGND
VAUXSY
VGND
VAUXSC

TO_1U-3700-4
PRE_CONNECT_UNIT
CY931
3P-PH(YW)
IPODSC
IPODGND
IPODSY

TO_1U-3743-6
S-VIDEO_UNIT

TO_1U-3700-4
PRE_CONNECT2 UNIT
CW052
5P-PH
VAUXSC
VGND
VAUXSY
VGND
VAUXV

TO_1U-3700-3
EXT IN/PREOUT UNIT

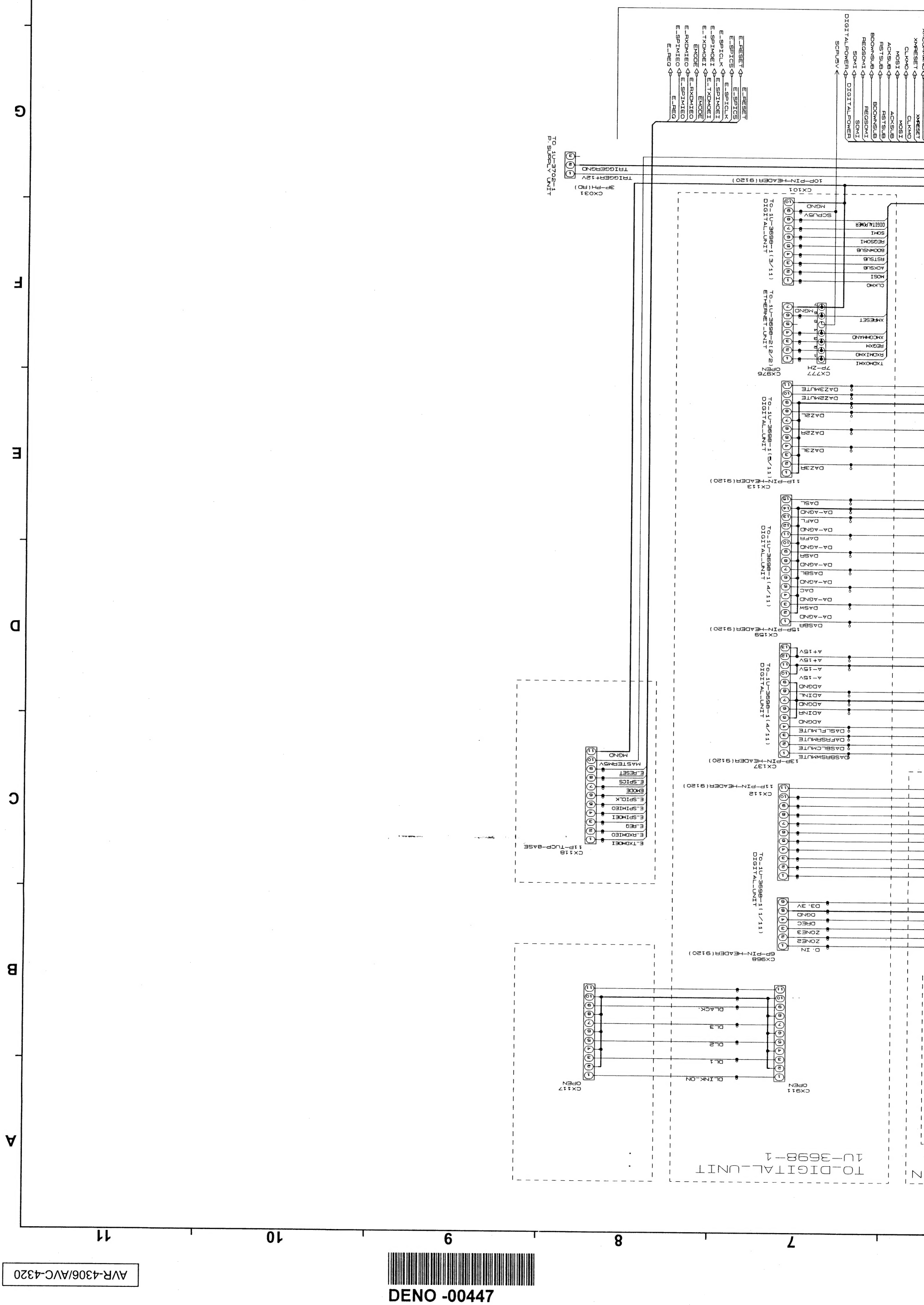
TO_1U-3743-1(3/4)
AUDIO_UNIT

TO_1U-3700-2
DIGITAL IN UNIT

TO 1U-3700-1(1/2)

SCHEMATIC DIAGRAMS (2/34)

1U-3700-1 MAIN CPU UNIT (2/2)



1 2 3 4 5 6

1U-3700-2
DIGITAL_IN UNIT

TO 1U-3700-4
PRE CONNECT2 UNIT

CX033
3P-PH(RD)

OPT-1
IC907
TORX142(F)

OPT-2
IC908
TORX142(F)

OPTICAL INPUT

OPT-3
IC909
TORX142(F)

OPT-4
IC910
TORX142(F)

OPT-3
TOTX142(F)
IC911

RECOUT

OPT-4
TOTX142(F)
IC912

JK901
2P-JACK_8658001

C-1

COAX. INPUT

C-2

IC903
TC74VHCU04F

IC904
TC74VHC14F

IC902
TC74VHCU04F

IC913
TC74VHC14F

ZONE 1

ZONE2/REC

IC906
TC74HC151AF

IC905
TC74HC151AF

EUROPE_MODEL_ONLY

IC914
LC72722PM

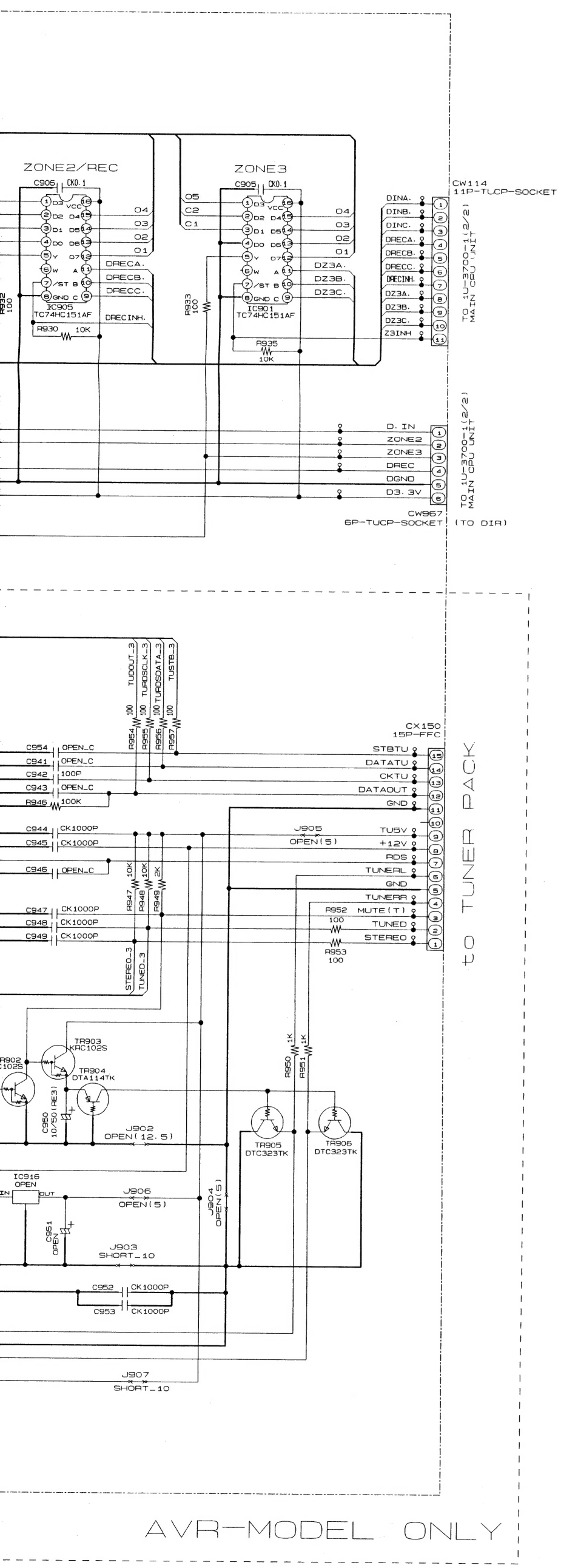
IC915
KIA7812API

IC916
OPEN

J901
OPEN(12.5)

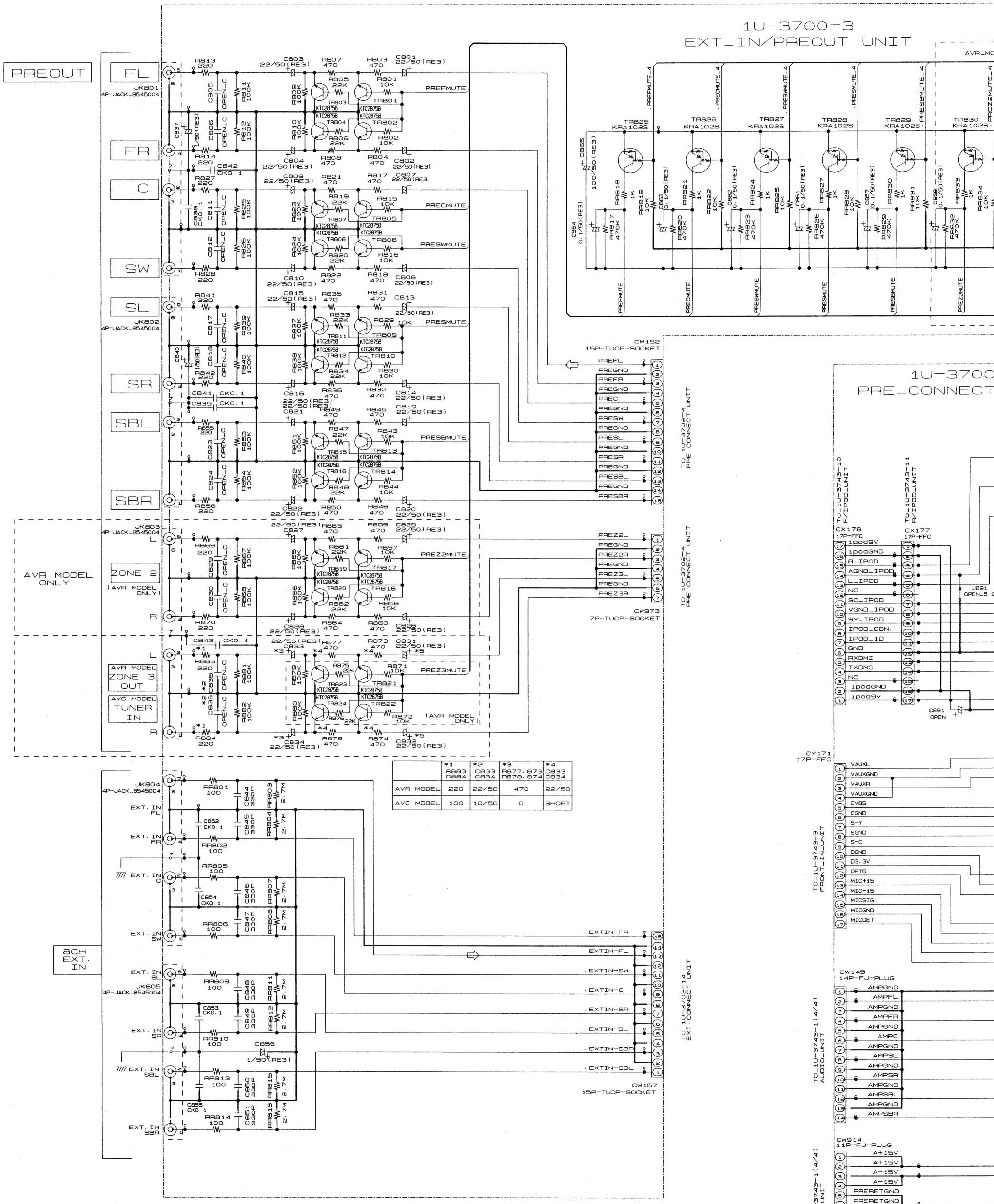
CW161
16P-TUCP-SOCKET

TO 1U-3700-1(2/2)
MAIN CPU UNIT

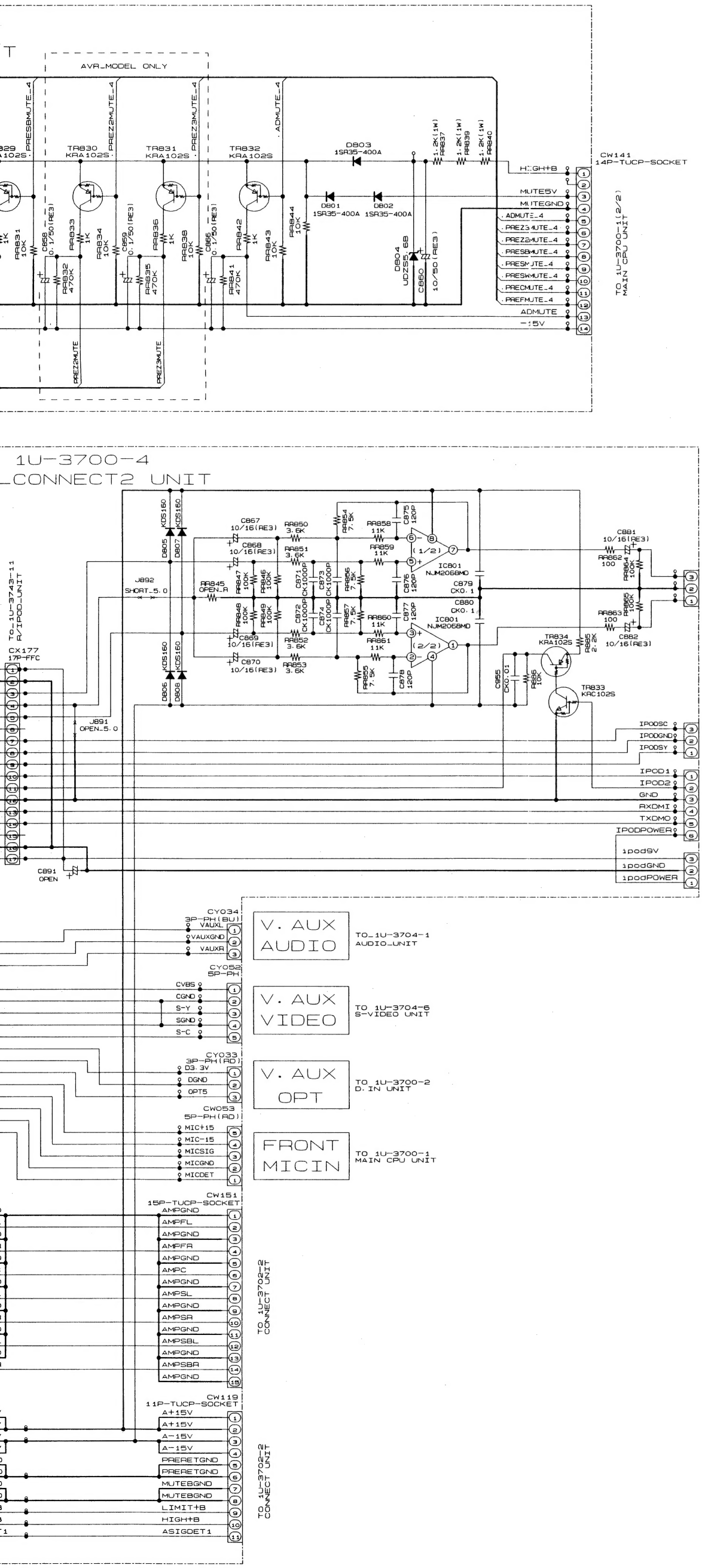


SCHEMATIC DIAGRAMS (3/34)
1U-3700-2 DIGITAL IN UNIT

1 2 3 4 5 6



	*1 R883 R884	*2 C833 C834	*3 R877. 873 R878. 874	*4 C833 C834
AVR MODEL	220	22/50	470	22/50
AVC MODEL	100	10/50	0	SHORT

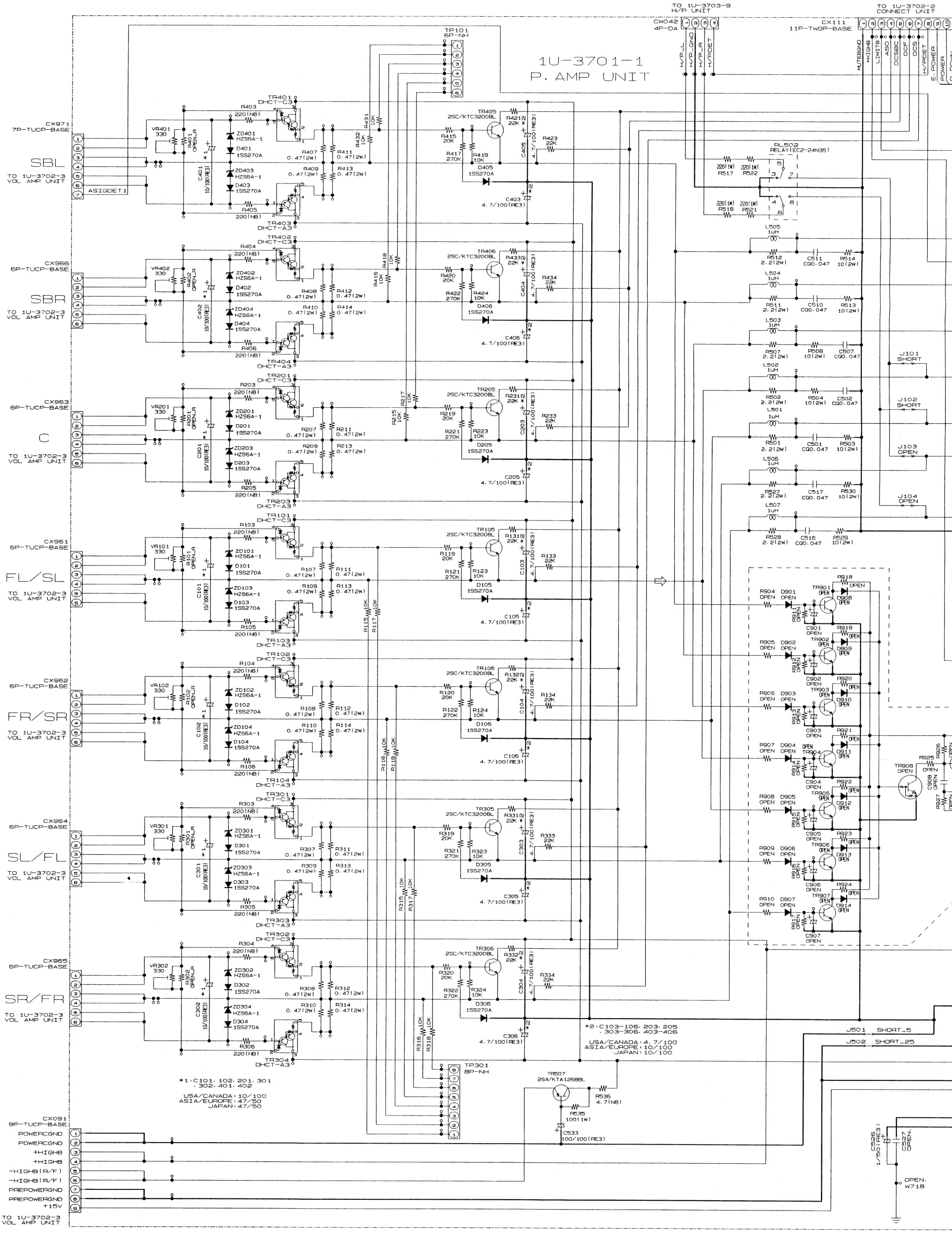


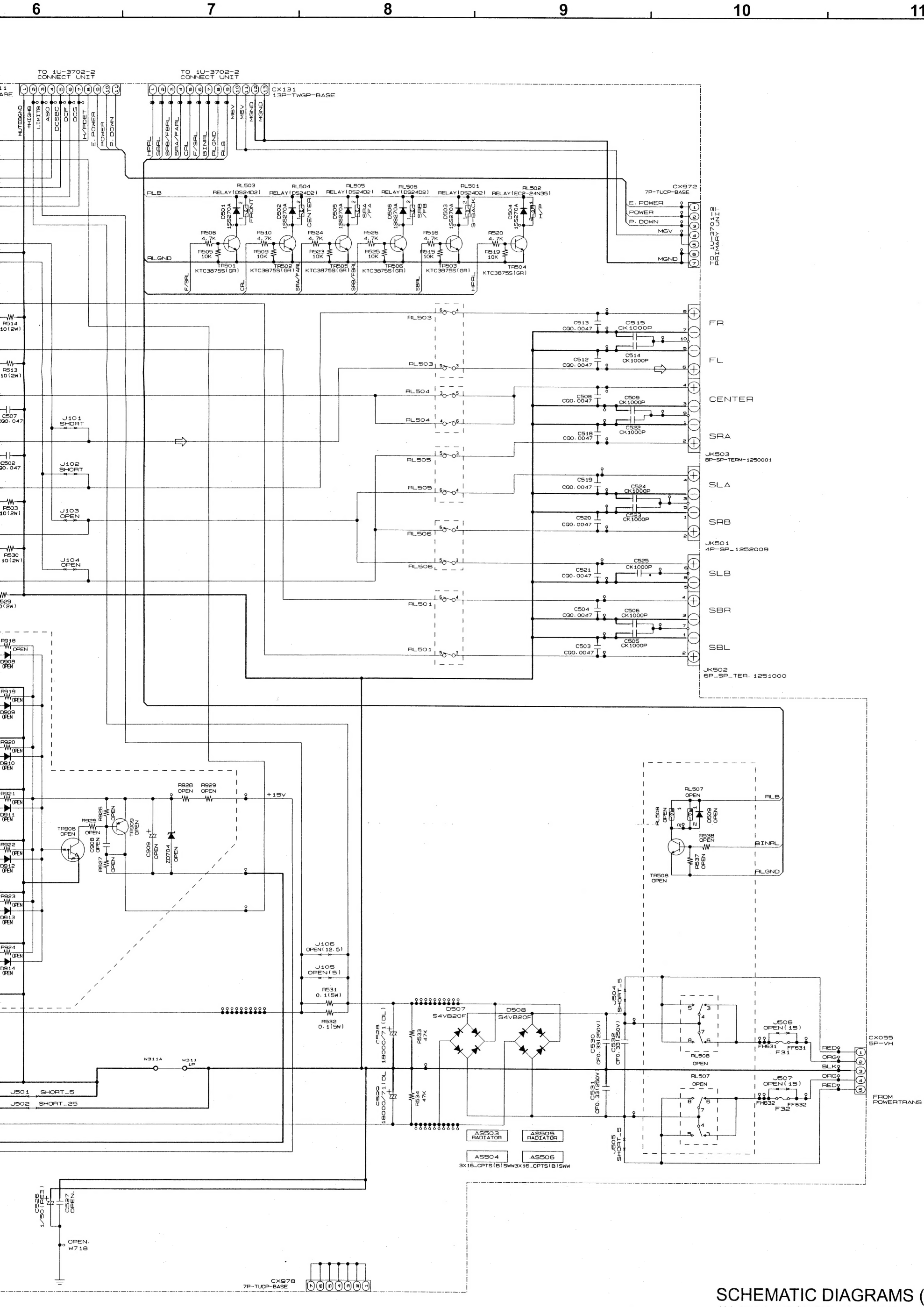
SCHEMATIC DIAGRAMS (4/34)

1U-3700-3 EXT IN/PREOUT UNIT
1U-3700-4 PRE CONNECT2 UNIT

SCHEMATIC DIAGRAMS (5/34)

1 2 3 4 5 6



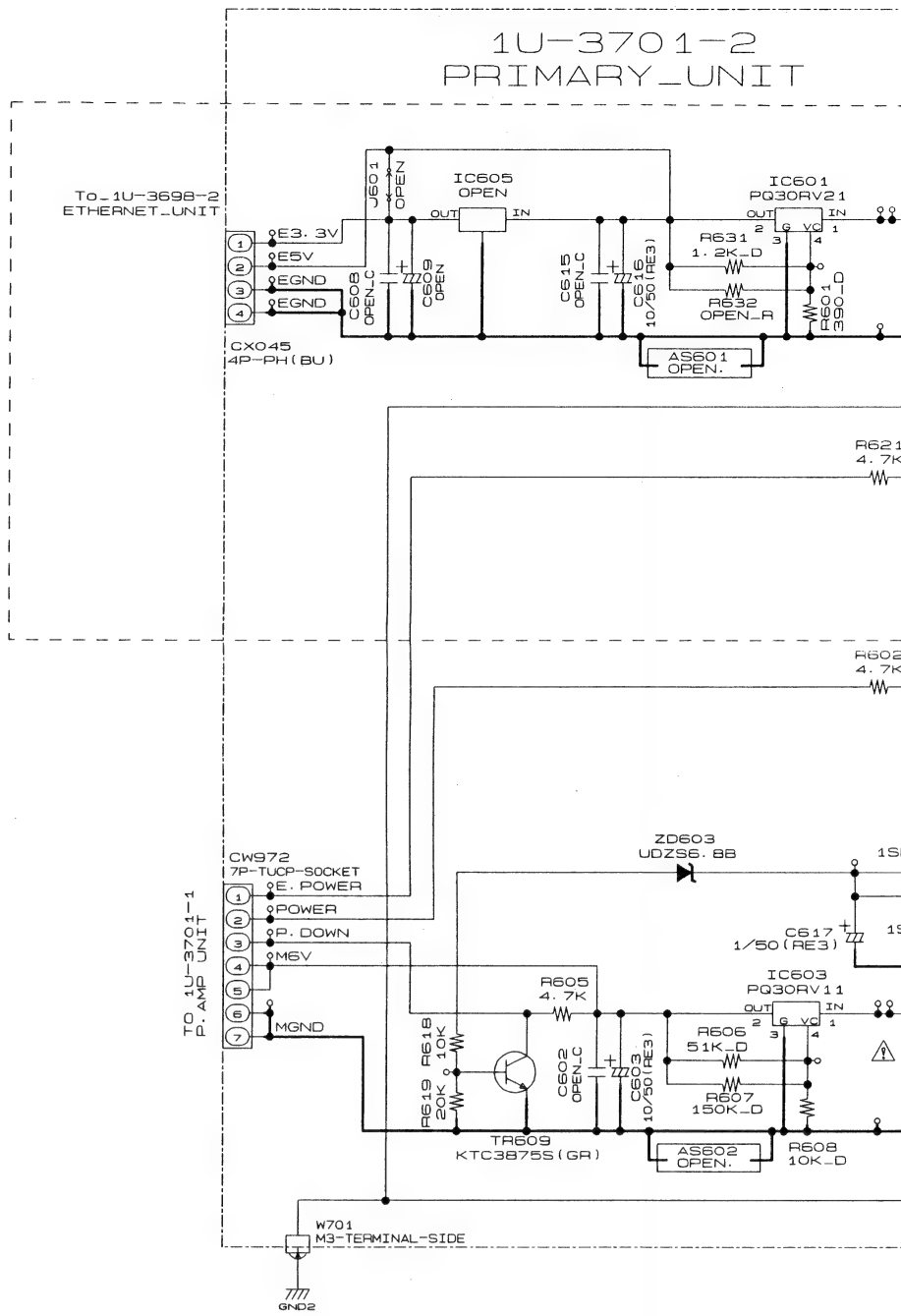


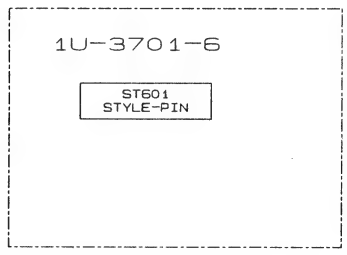
SCHEMATIC DIAGRAMS (5/34)

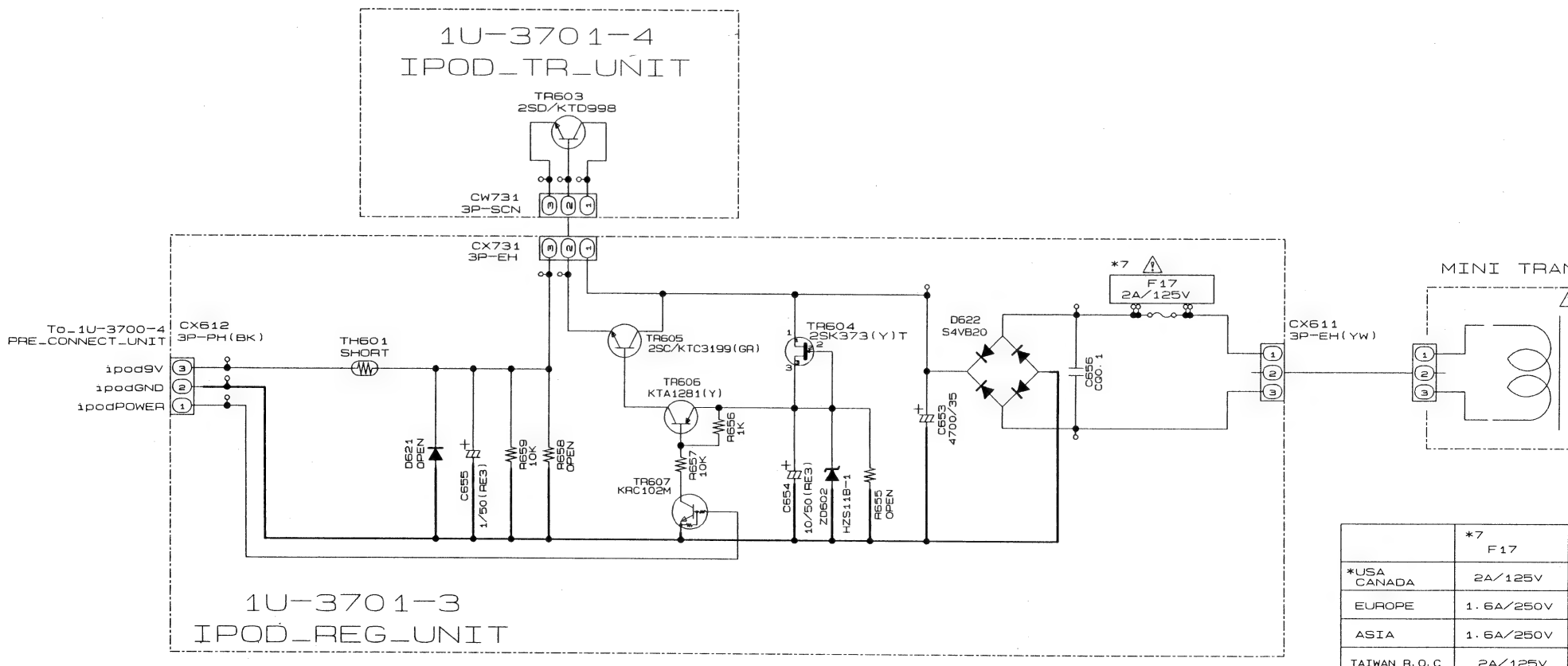
1U-3701-1 POWER AMP UNIT

SCHEMATIC DIAGRAMS (6/34)

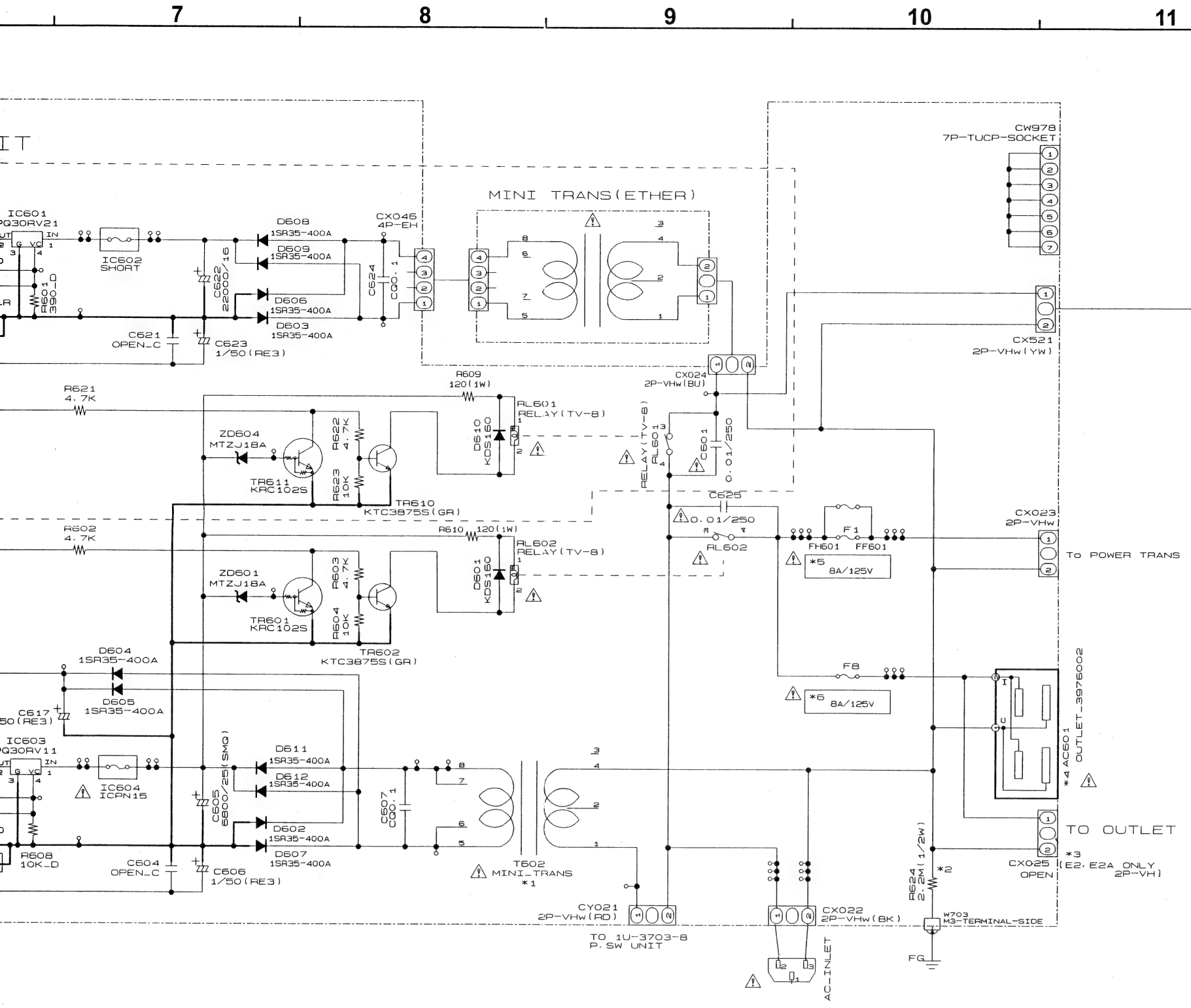
1 2 3 4 5 6







	*7 F17
*USA CANADA	2A/125V
EUROPE	1.6A/250V
ASIA	1.6A/250V
TAIWAN R.O.C	2A/125V
JAPAN	2A/125V



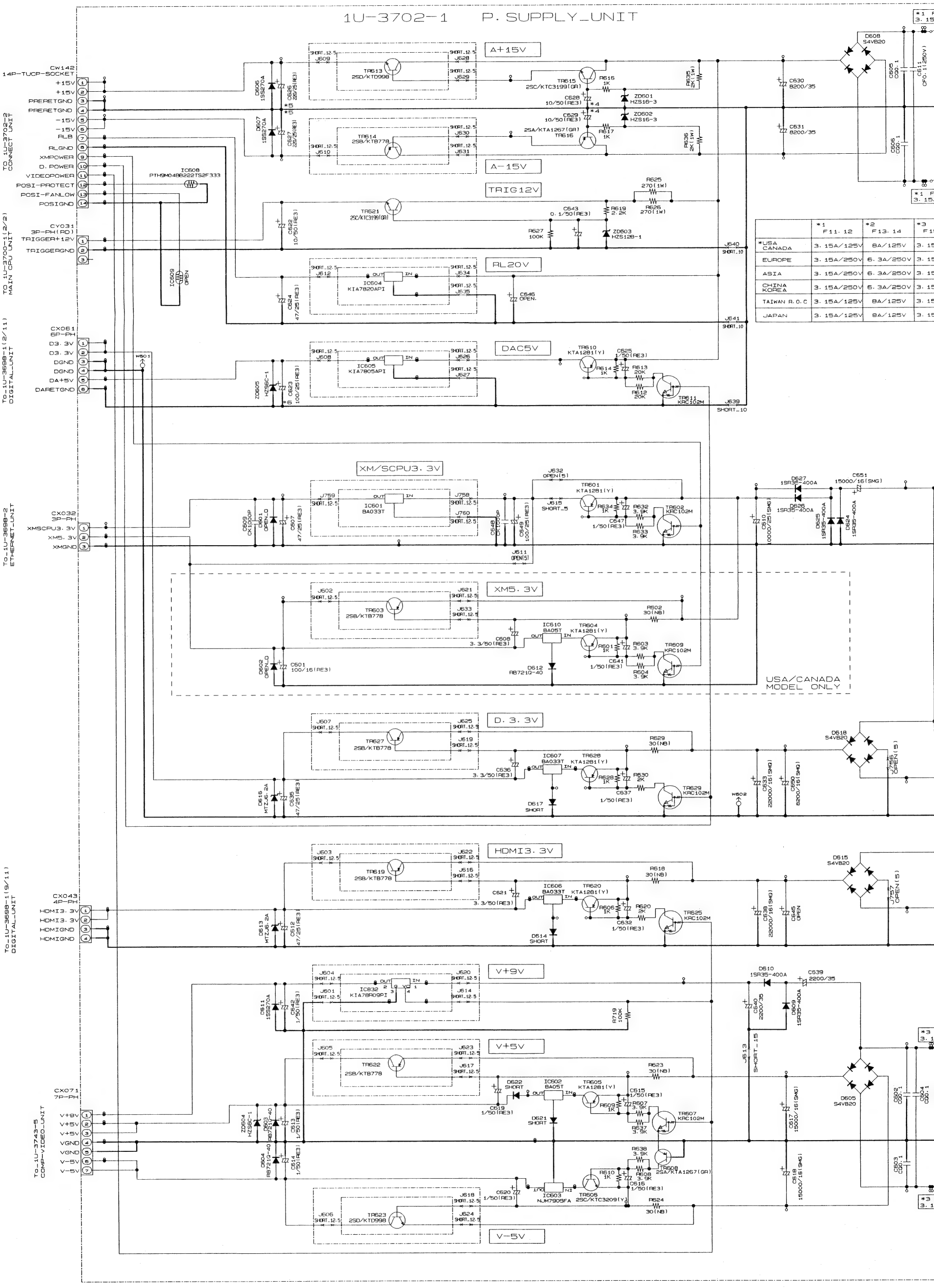
	*1 T602	*2 R624	*3 CX025	*4 AC601	*5 F1	*6 F8
*USA CANADA	2336524009	2.2M	OPEN	AC OUTLET	8A/125V	8A/125V
EUROPE	2336526007	OPEN	2P-VH	OPEN	4A/250V	2.5A/250V
ASIA	2336526007	OPEN	2P-VH	OPEN	4A/250V	2.5A/250V
CHINA KOREA	2336528005	OPEN	OPEN	OPEN	4A/250V	OPEN
TAIWAN R.O.C	2336524009	OPEN	OPEN	AC OUTLET	8A/125V	8A/125V
JAPAN	2330703004	OPEN	OPEN	AC OUTLET	10A/125V	8A/125V

SCHEMATIC DIAGRAMS (6/34)

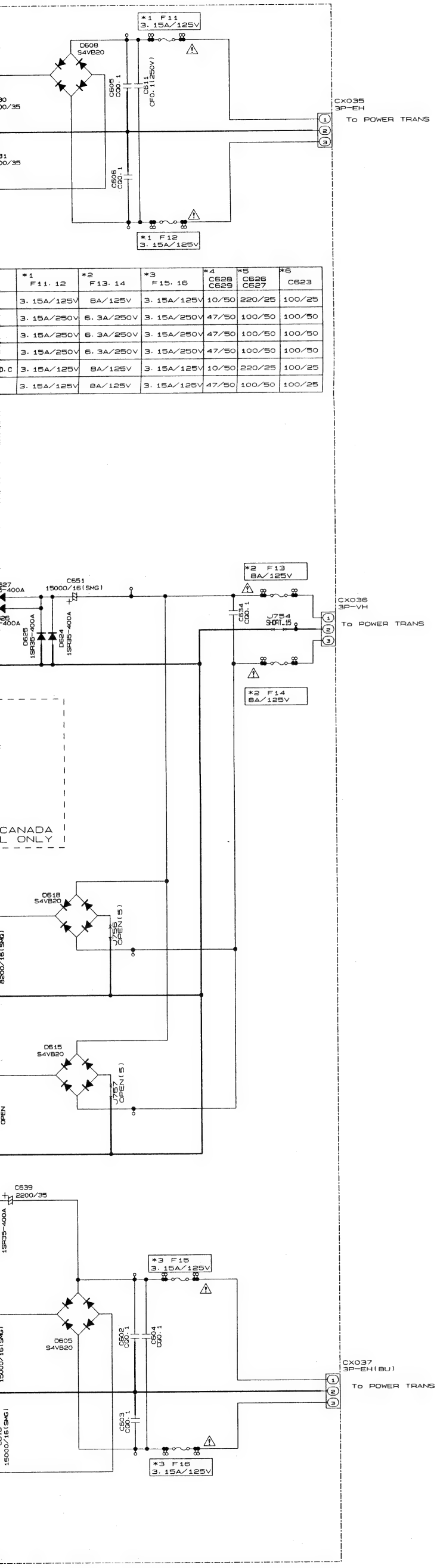
1U-3701-2 PRIMARY UNIT
1U-3701-3 IPOD REG UNIT
1U-3701-4 IPOD TR UNIT

SCHEMATIC DIAGRAMS (7/34)

1 2 3 4 5 6



	*1 F11.12	*2 F13.14	*3 F1
*USA CANADA	3.15A/125V	8A/125V	3.15
EUROPE	3.15A/250V	6.3A/250V	3.15
ASIA	3.15A/250V	6.3A/250V	3.15
CHINA KOREA	3.15A/250V	6.3A/250V	3.15
TAIWAN R.O.C	3.15A/125V	8A/125V	3.15
JAPAN	3.15A/125V	8A/125V	3.15



	*1 F11. 12	*2 F13. 14	*3 F15. 16	*4 C628 C629	*5 C626 C627	*6 C623
	3.15A/125V	8A/125V	3.15A/125V	10/50	220/25	100/25
	3.15A/250V	6.3A/250V	3.15A/250V	47/50	100/50	100/50
	3.15A/250V	6.3A/250V	3.15A/250V	47/50	100/50	100/50
	3.15A/250V	6.3A/250V	3.15A/250V	47/50	100/50	100/50
	3.15A/125V	8A/125V	3.15A/125V	10/50	220/25	100/25
	3.15A/125V	8A/125V	3.15A/125V	47/50	100/50	100/25

SCHEMATIC DIAGRAMS (7/34)

1U-3702-1 P. SUPPLY UNIT

1 2 3 4 5 6

1U-3702-4
PRE_CONNECT UNIT

CX152
15P-TUCP-BASE

1	PREFL
2	PREGND
3	PREFR
4	PREGND
5	PREC
6	PREGND
7	PRESW
8	PREGND
9	PRESL
10	PREGND
11	PRESR
12	PREGND
13	PRESBL
14	PREGND
15	PRESBR

TO 1U-3700-3
EXT_IN/PREOUT UNIT

CX153
15P-TUCP-BASE

1	PREFL
2	PREGND
3	PREFR
4	PREGND
5	PREC
6	PREGND
7	PRESW
8	PREGND
9	PRESL
10	PREGND
11	PRESR
12	PREGND
13	PRESBL
14	PREGND
15	PRESBR

To 1U-3743-1(3/4)
AUDIO_UNIT

CX973
7P-TUCP-BASE

1	PREZ2L
2	PREGND
3	PREZ2R
4	PREGND
5	PREZ3L
6	PREGND
7	PREZ3R

CX974
7P-TUCP-BASE

1	PREZ2L
2	PREGND
3	PREZ2R
4	PREGND
5	PREZ3L
6	PREGND
7	PREZ3R

TO 1U-3702-1
P. SUPPLY UNIT

CX142
14P-TUCP-BASE

1	+15V
2	+15V
3	PRERETGND
4	PRERETGND
5	-15V
6	-15V
7	RLB
8	RLGND
9	XMPOWER
10	D. POWER
11	VIDEOPOWER
12	POSI-PROTECT
13	POSI-FANLOW
14	POSIGND

D623 1SS270A XMPOWER
D620 1SS270A D. POWER
D619 1SS270A V. POWER

CX151
15P-TUCP-BASE

1	AMPGND
2	AMPFL
3	AMPGND
4	AMPFR
5	AMPGND
6	AMPC
7	AMPGND
8	AMPSL
9	AMPGND
10	AMPSR
11	AMPGND
12	AMPSBL
13	AMPGND
14	AMPSBR
15	AMPGND

TO 1U-3700-4
PRE CONNECT2 UNIT

CX119
11P-TUCP-BASE

1	A+15V
2	A+15V
3	A-15V
4	A-15V
5	PRERETGND
6	PRERETGND
7	MUTEBGND
8	MUTEBGND
9	LIMIT+B
10	HIGH+B
11	ASIGDET1

TO 1U-3700-4
PRE CONNECT2 UNIT

CW975
7P-TWGP-PLUG

1	POSILOW
2	PROTECTION
3	XMPOWER
4	D. POWER
5	V. POWER
6	H/PDET
7	E. POWER

TO 1U-3700-1
MAIN CPU UNIT

CW132
13P-TWGP-PLUG

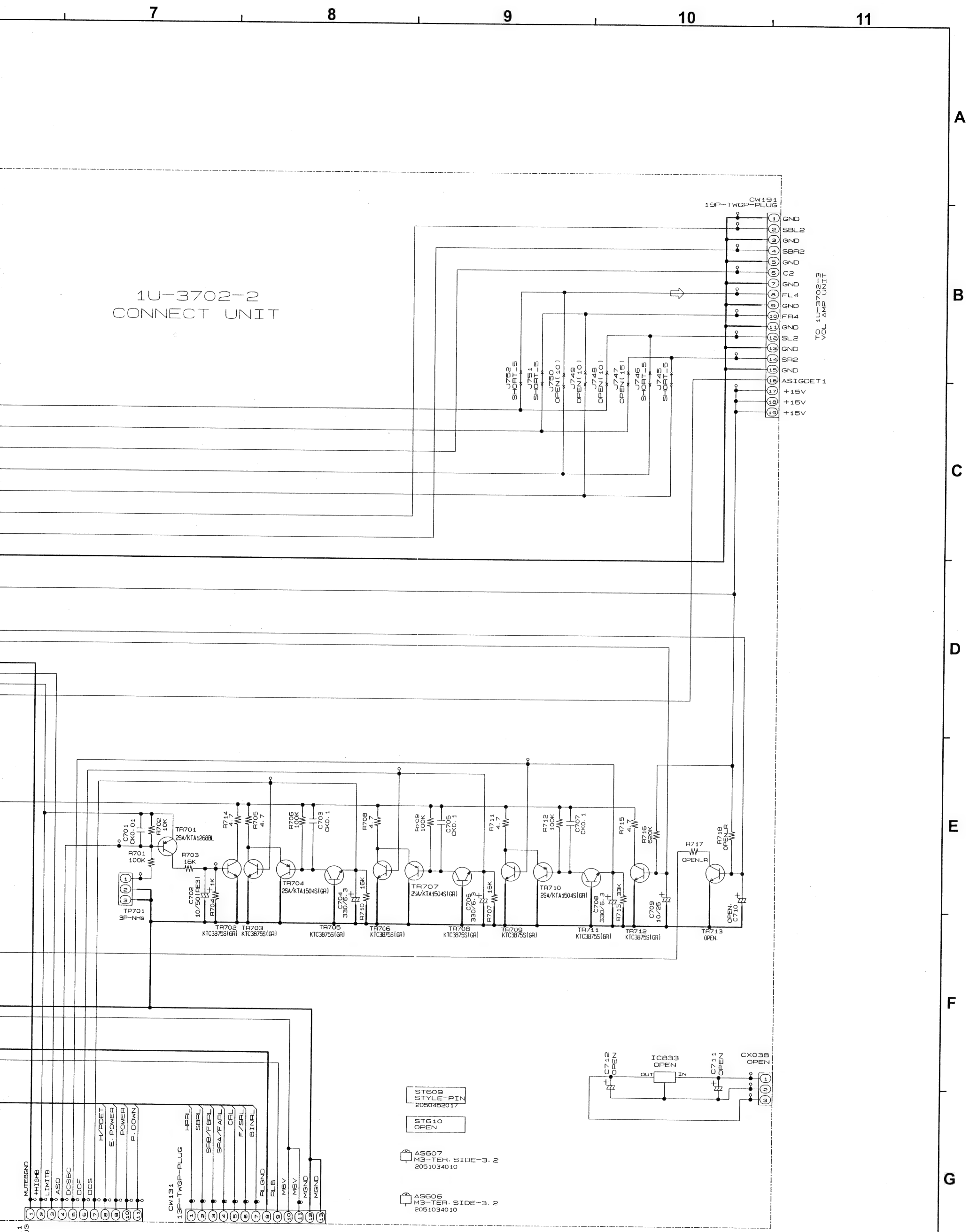
1	POWER
2	P. DOWN
3	HPRL
4	SBRL
5	SRB/FBRL
6	SRA/FARL
7	CRL
8	F/SRL
9	BINRL
10	MSV
11	MSV
12	MGND
13	MGND

TO 1U-3700-1
MAIN CPU UNIT

CW111
11P-TWGP-PLUG

1	MUTEBGND
2	+HIGHB
3	LIMITB
4	ASO
5	DCSBC
6	DCF
7	DCS

TO 1U-370
P. AMP UNI



SCHEMATIC DIAGRAMS (8/34)

1U-3702-2 CONNECT UNIT
1U-3702-4 PRE CONNECT UNIT

1 2 3 4 5 6

1U-3702-3
VOL_AMP_UNIT

CX191
19P-TWGP-BASE

TO 1U-3702-2
CONNECT UNIT

GND	1	
SBL2	2	
GND	3	
SBR2	4	
GND	5	
C2	6	
GND	7	
FL4	8	⇨
GND	9	
FR4	10	
GND	11	
SL2	12	
GND	13	
SR2	14	
GND	15	
ASIGDET1	16	
+15V	17	
+15V	18	
+15V	19	

AS609
M3-TERMINAL-SIDE
2051034007

AS605
M3-TER.SIDE-3.2

SBL
C409 10/50(RE3)
R421 2.2K
C411 CQ220P
R423 1.2K
C413 CQ470P
2SA/KTA1268BL TR407
2SA/KTA1268BL TR409
R425 33K
R427 1K(NB)
C415 CQ0.0033
R431 300
R433 1K(NB)
C417
C599 1/50(ARSA)
R429 15K
C419 33P(500V)
R435 33K
R437 15K(2W)
C427 OPEN.
C421 5P(500V)
KTC3206Y-AT TR411
C423 47P(500V)
D401 1SS270A
220/50(RE3)
D403 1SS270A
R439 220(NB)
R443 220(NB)
TR413 KTA1024Y-A
270(NB) R441
TR415 KTC3206Y-AT
D405 1SS270A

SBR
C410 10/50(RE3)
R422 2.2K
C412 CQ220P
R424 1.2K
C414 CQ470P
2SA/KTA1268BL TR408
2SA/KTA1268BL TR410
R426 33K
R428 1K(NB)
C416 CQ0.0033
R432 300
R434 1K(NB)
C418
R430 15K
C420 33P(500V)
R436 33K
R438 15K(2W)
C428 OPEN.
C422 5P(500V)
KTC3206Y-AT TR412
C424 47P(500V)
D402 1SS270A
220/50(RE3)
D404 1SS270A
R440 220(NB)
R444 220(NB)
TR414 KTA1024Y-A
270(NB) R442
TR416 KTC3206Y-AT
D406 1SS270A

C
C209 10/50(RE3)
R221 2.2K
C211 CQ220P
R223 1.2K
C213 CQ470P
2SA/KTA1268BL TR207
2SA/KTA1268BL TR209
R225 33K
R227 1K(NB)
C215 CQ0.0033
R231 300
R233 1K(NB)
C217
R229 15K
C219 33P(500V)
R235 33K
R237 15K(2W)
C227 OPEN.
C221 5P(500V)
KTC3206Y-AT TR211
C223 47P(500V)
D201 1SS270A
220/50(RE3)
D203 1SS270A
R239 220(NB)
R243 220(NB)
TR213 KTA1024Y-A
270(NB) R241
TR215 KTC3206Y-AT
D205 1SS270A

FL
C109 10/50(RE3)
R121 2.2K
C111 CQ220P
R123 1.2K
C113 CQ470P
2SA/KTA1268BL TR107
2SA/KTA1268BL TR109
R125 33K
R127 1K(NB)
C115 CQ0.0033
R131 300
R133 1K(NB)
C117
R129 15K
C119 33P(500V)
R135 33K
R137 15K(2W)
C127 OPEN.
C121 5P(500V)
KTC3206Y-AT TR111
C123 47P(500V)
D101 1SS270A
220/50(RE3)
D103 1SS270A
R139 220(NB)
R143 220(NB)
TR113 KTA1024Y-A
270(NB) R141
TR115 KTC3206Y-AT
D105 1SS270A

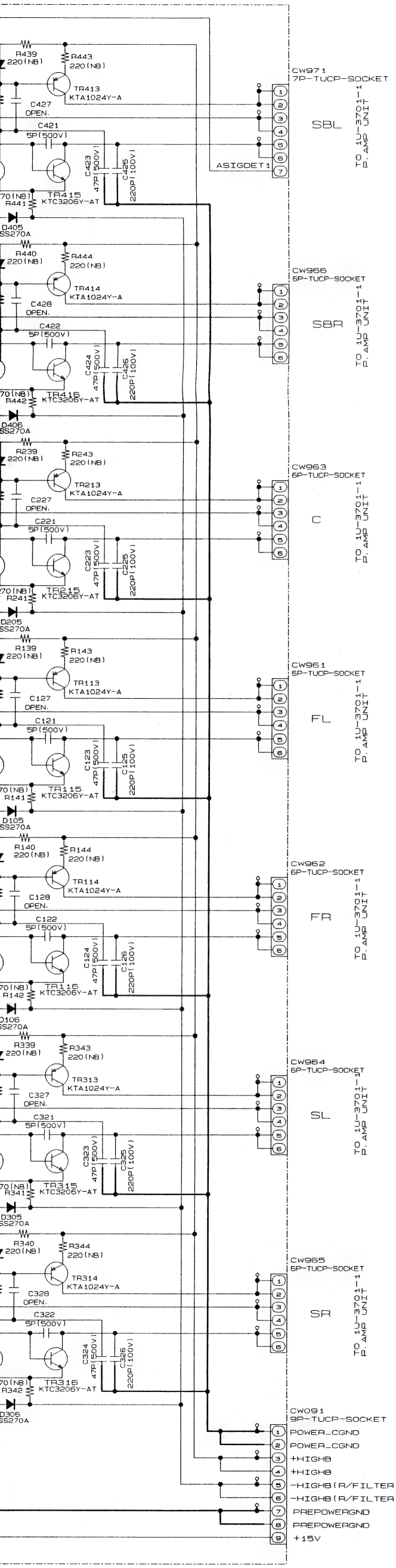
FR
C110 10/50(RE3)
R122 2.2K
C112 CQ220P
R124 1.2K
C114 CQ470P
2SA/KTA1268BL TR108
2SA/KTA1268BL TR110
R126 33K
R128 1K(NB)
C116 CQ0.0033
R132 300
R134 1K(NB)
C118
R130 15K
C120 33P(500V)
R136 33K
R138 15K(2W)
C128 OPEN.
C122 5P(500V)
KTC3206Y-AT TR112
C124 47P(500V)
D102 1SS270A
220/50(RE3)
D104 1SS270A
R140 220(NB)
R144 220(NB)
TR114 KTA1024Y-A
270(NB) R142
TR116 KTC3206Y-AT
D106 1SS270A

SL
C309 10/50(RE3)
R321 2.2K
C311 CQ220P
R323 1.2K
C313 CQ470P
2SA/KTA1268BL TR307
2SA/KTA1268BL TR309
R325 33K
R327 1K(NB)
C315 CQ0.0033
R331 300
R333 1K(NB)
C317
R329 15K
C319 33P(500V)
R335 33K
R337 15K(2W)
C327 OPEN.
C321 5P(500V)
KTC3206Y-AT TR311
C323 47P(500V)
D301 1SS270A
220/50(RE3)
D303 1SS270A
R339 220(NB)
R343 220(NB)
TR313 KTA1024Y-A
270(NB) R341
TR315 KTC3206Y-AT
D305 1SS270A

SR
C310 10/50(RE3)
R322 2.2K
C312 CQ220P
R324 1.2K
C314 CQ470P
2SA/KTA1268BL TR308
2SA/KTA1268BL TR310
R326 33K
R328 1K(NB)
C316 CQ0.0033
R332 300
R334 1K(NB)
C318
R330 15K
C320 33P(500V)
R336 33K
R338 15K(2W)
C328 OPEN.
C322 5P(500V)
KTC3206Y-AT TR312
C324 47P(500V)
D302 1SS270A
220/50(RE3)
D304 1SS270A
R340 220(NB)
R344 220(NB)
TR314 KTA1024Y-A
270(NB) R342
TR316 KTC3206Y-AT
D306 1SS270A

6 7 8 9 10 11

A B C D E F G H

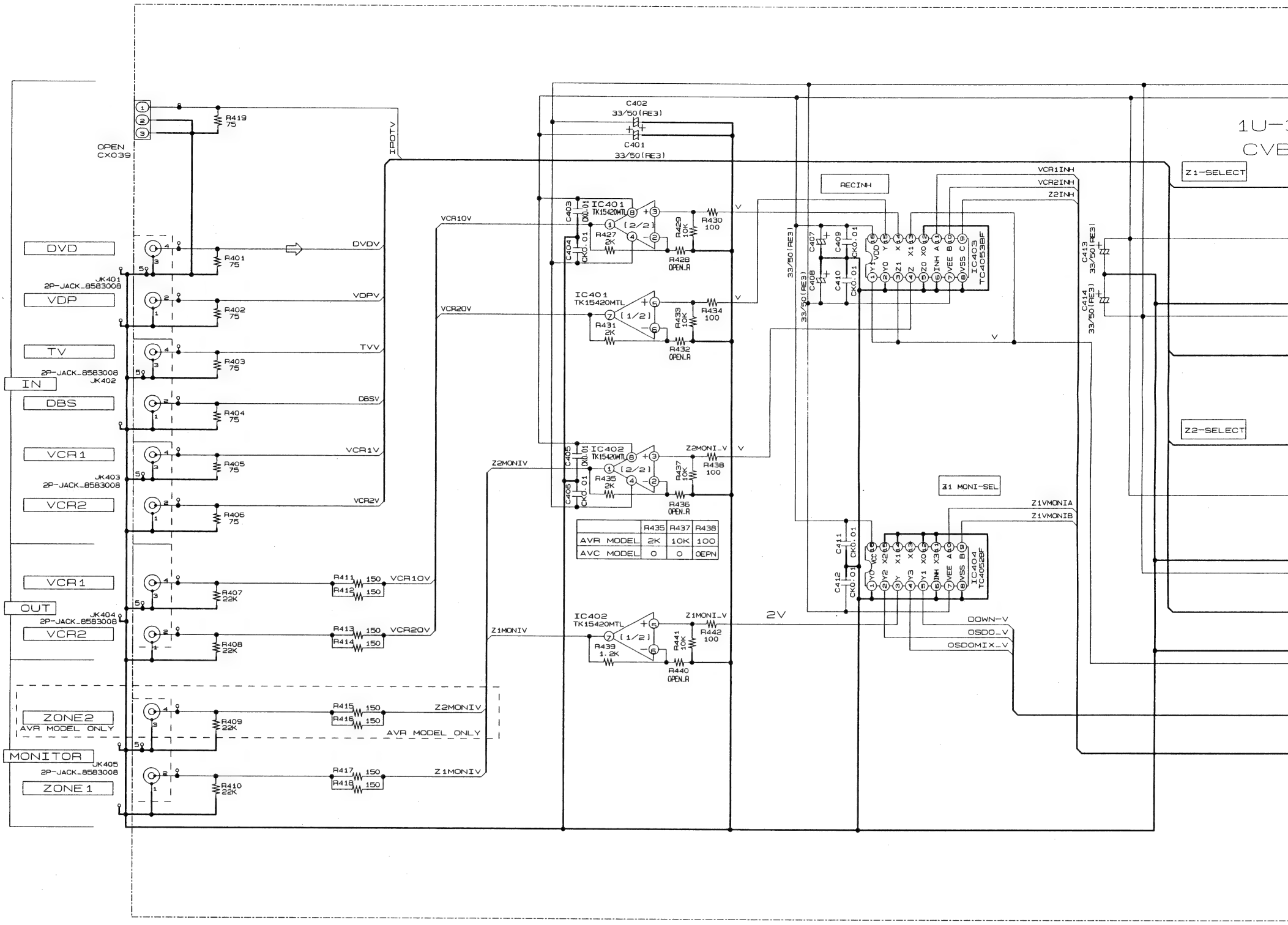


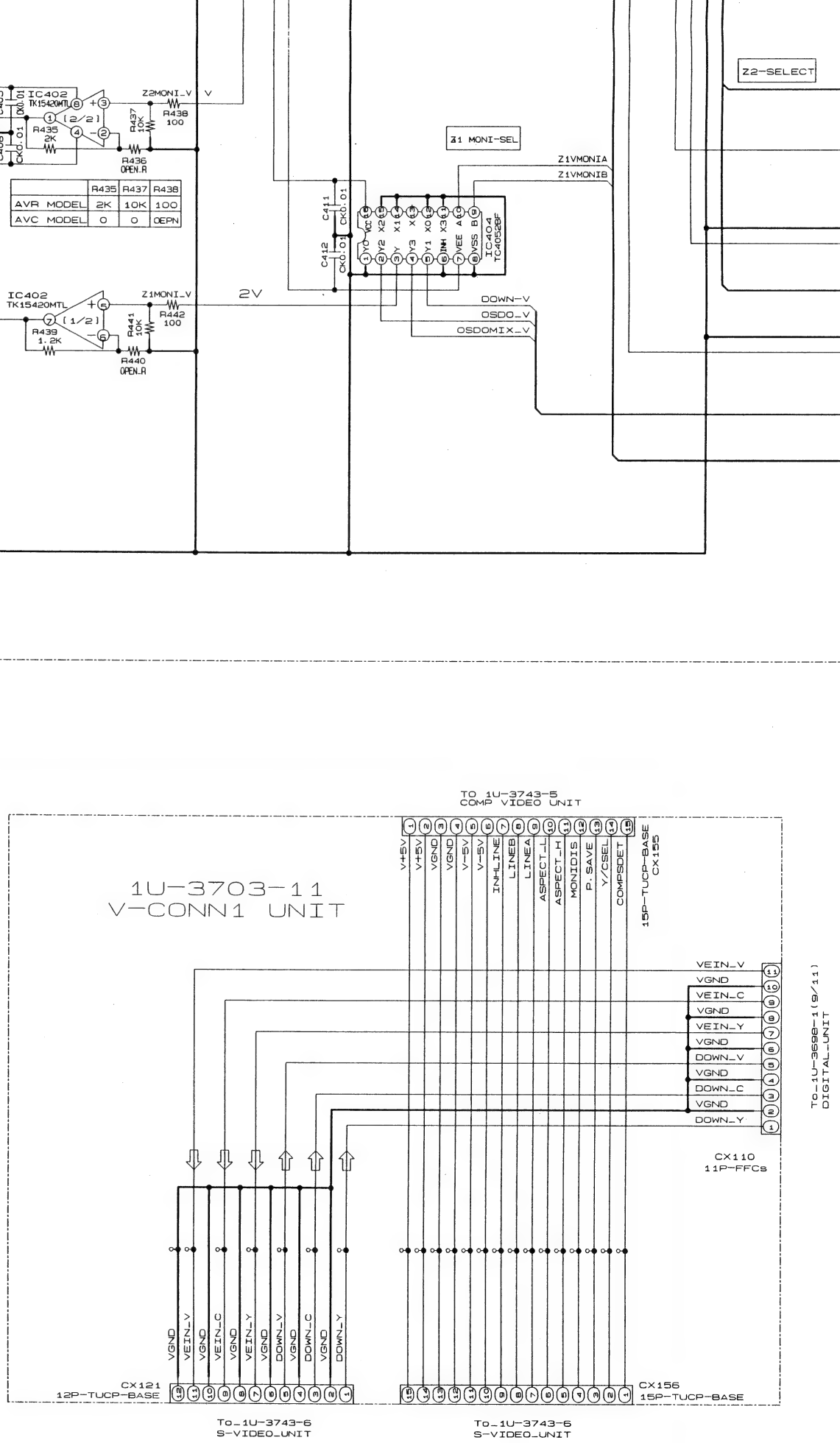
SCHEMATIC DIAGRAMS (9/34)

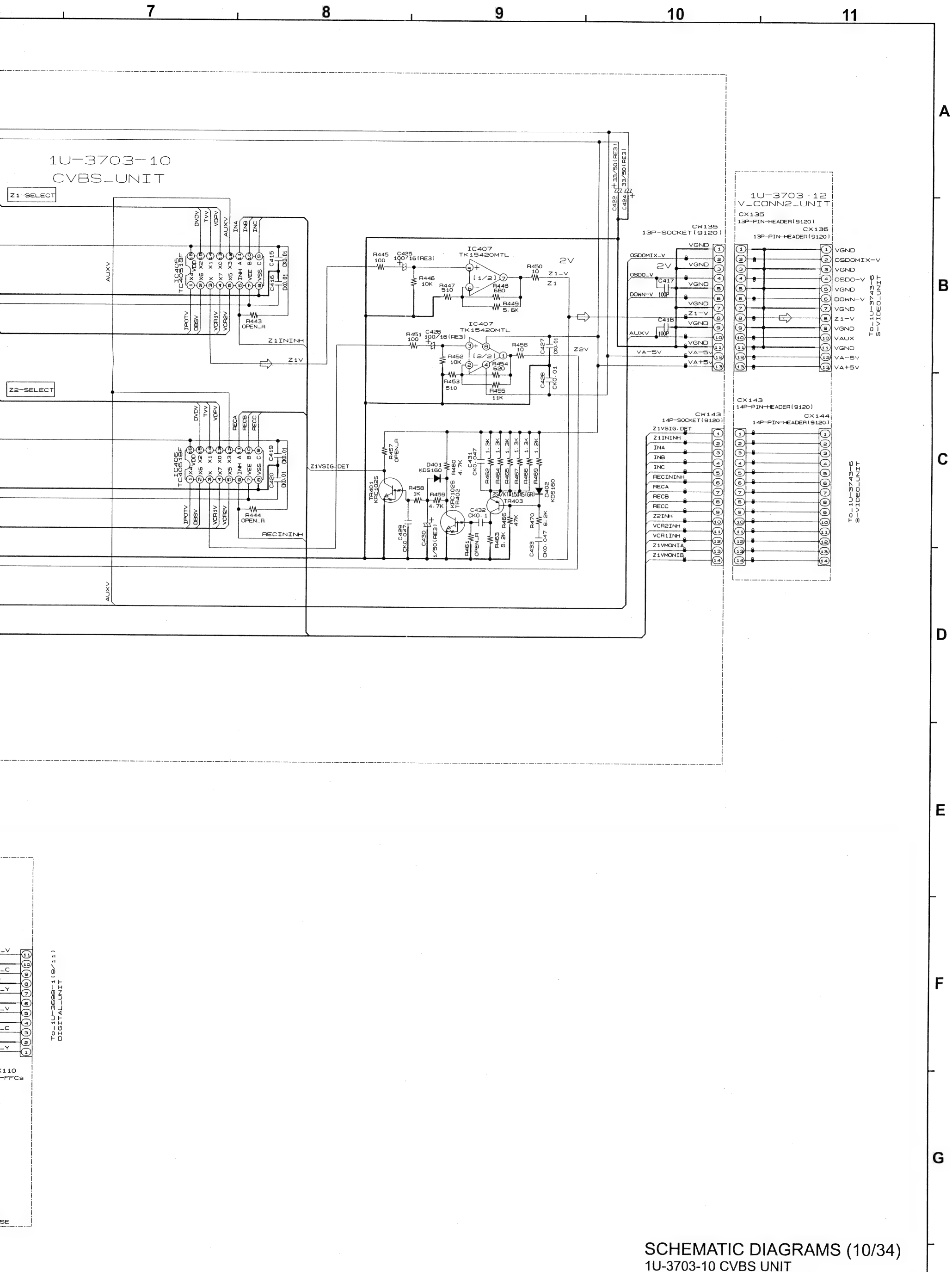
1U-3702-3 VOL AMP UNIT

SCHEMATIC DIAGRAMS (10/34)

1 2 3 4 5 6







SCHEMATIC DIAGRAMS (10/34)

1U-3703-10 CVBS UNIT
1U-3703-11 V-CONN1 UNIT
1U-3703-12 V-CONN2 UNIT

1 2 3 4 5 6

1U-3703-13
232C_UNIT

RS-232C
JK705
9P-SSUB-CONN
FB714 0
FB715 0
R705 1K
R706 1K
100P
C726 C724 C725
C722 100P
C723 CK0.01
C708 CK0.1

C716 10/16
C712 0.1/50
C715 CK0.1
C713 0.1/50
C714 0.1/50
C707 0.1/50
R714 1K
R715 1K
IC705
HIN202EIBNZ-T
VCC GND T1OUT R1IN R1OUT T1IN

AVR MODEL ONLY
ROOM to ROOM REMOCON IN
JK701 MINI JACK
ROOM to ROOM REMOCON OUT
JK702 MINI JACK
C703 CK0.1
C701 CK1000P
ZD701 UDZS6.2B
R701 1K
FB709 0
R710 39K
C710 1/50
R709 1K
C706 100P
R708 470
C709 CK0.01
IC701
CXA1511M
R707 200K
C702 33/10
C704 CK0.01
R704 22
R702 22
TR701 KRA104S

TRIGGER OUT1
JK703 MINI_8649007
TRIGGER OUT2
JK704 MINI_8649007
FB705 0
C705 CK0.1
ZD702 UDZS16B
FB713 0
C718 CK0.1
ZD703 UDZS16B
R703 0
TR704 KRA104S
TR702 KRC104S
TR705 KRA104S
TR703 KRC104S
C717 CK0.1
C711 CK0.1

JK804 2P-JACK
CD
R825 100
C805 330P
R827 100K
C856 10/35
C858 OPEN_C
NJM2068MD IC804 (1/2)
R893 47
C878 33/25
R895 100K
R891 91K
R892 91K
C890 CK0.1
C806 330P
R828 100K
R826 100
C857 10/35
C859 OPEN_C
(2/2) IC804 NJM2068MD
R894 47
C879 33/25
R896 100K
C888 1/50
C889 CK0.1
FG

JK805 2P-JACK
PHONO
R833 0
R835 390
L801 OPEN
C817 OPEN_C
C819 220P
R837 68K
C821 10/35
R839 150K
R841 47
NJM2068MD IC802 (1/2)
C823 100P
C825 220/6.3SRA
R845 130K
R847 11K
C827 CQ0.022
C829 CQ0.0068
R843 240
C891 OPEN
C893 OPEN
R851 47
C831 10/35
R849 22
R853 47K
C846 10/35
R844 240
C892 OPEN
C894 OPEN
C828 CQ0.022
C830 CQ0.0068
R846 130K
R848 11K
C824 220/6.3SRA
C826 100P
R850 22
R854 47K
C848 10/35
C818 OPEN_C
L802 OPEN
C820 220P
R838 68K
C822 10/35
R840 150K
R834 0
R836 390
R842 47
(2/2) IC802 NJM2068MD
R852 47
C832 10/35

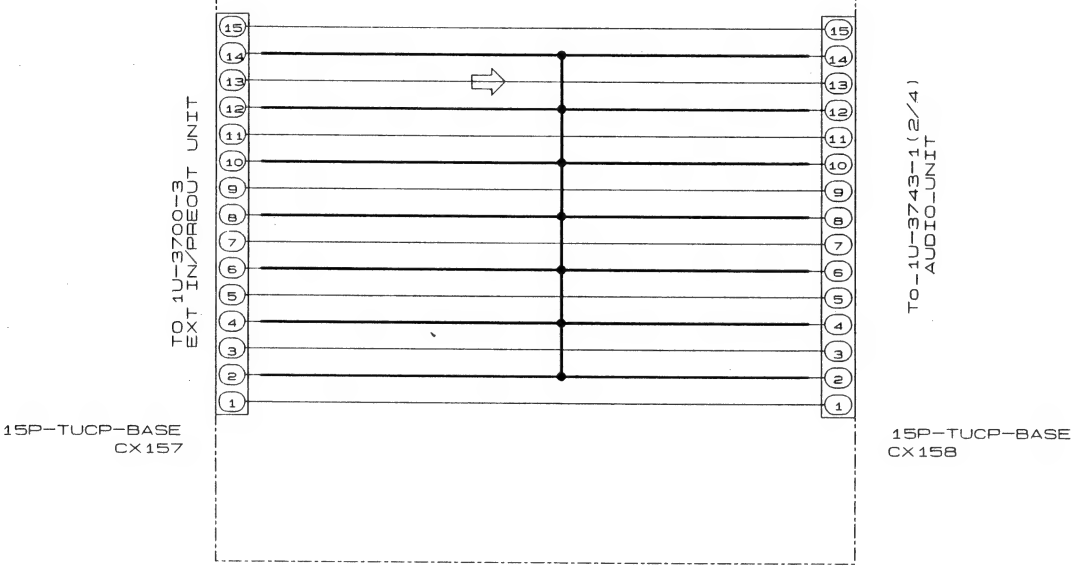
	L801. 802	R833. 834	FB704. 708
*USA CANADA	OPEN	0	0
EUROPE ASIA	FTZ CHOKE COIL	4.7K	0
JAPAN	OPEN	0	OPEN

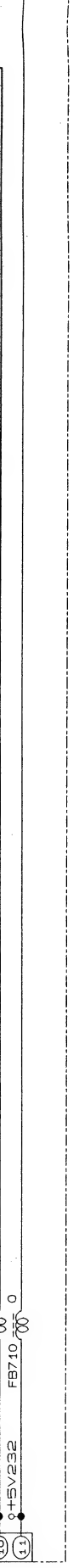
GND PHONOR GND PHONOL GND CDR GND CDL GND -15V +15V
CX912 11P-JE-PLUG
TO 1U-3700-1(2/2) MAIN CPU UNIT

FB707 FB706 FB703 FB704 FB702 FB701 FB708 FB710 0
TRIGGER2 TRIGGER1 TRIGGERGND TRIGGER12V REMOCON MI2320 MD2321 MGND MGND MASTER5V +5V232
CX913 11P-JE-PLUG
TO 1U-3700-1(2/2) MAIN CPU UNIT

6 7 8 9 10 11

A B C D E F G H

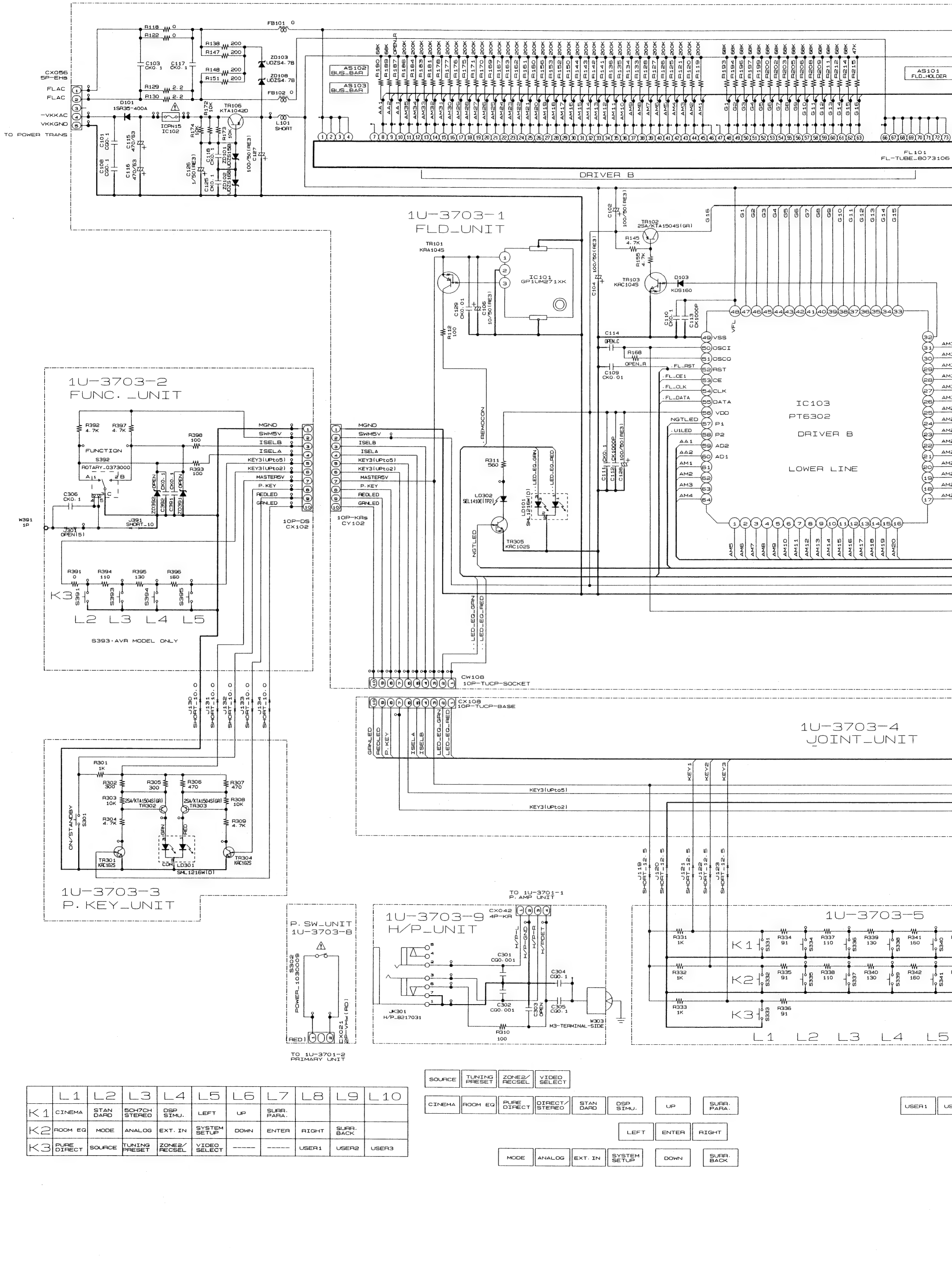




SCHEMATIC DIAGRAMS (11/34)
1U-3703-13 232C UNIT
1U-3703-14 EXT. CONNECT UNIT

SCHEMATIC DIAGRAMS (12/34)

1 2 3 4 5 6



	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
K1	CINEMA	STAN DARD	5CH7CH STEREO	DSP SIMU.	LEFT	UP	SURR. PARA.			
K2	ROOM EQ	MODE	ANALOG	EXT. IN	SYSTEM SETUP	DOWN	ENTER	RIGHT	SURR. BACK	
K3	PURE DIRECT	SOURCE	TUNING PRESET	ZONE2/ RECSEL	VIDEO SELECT	-----	-----	USER1	USER2	USER3

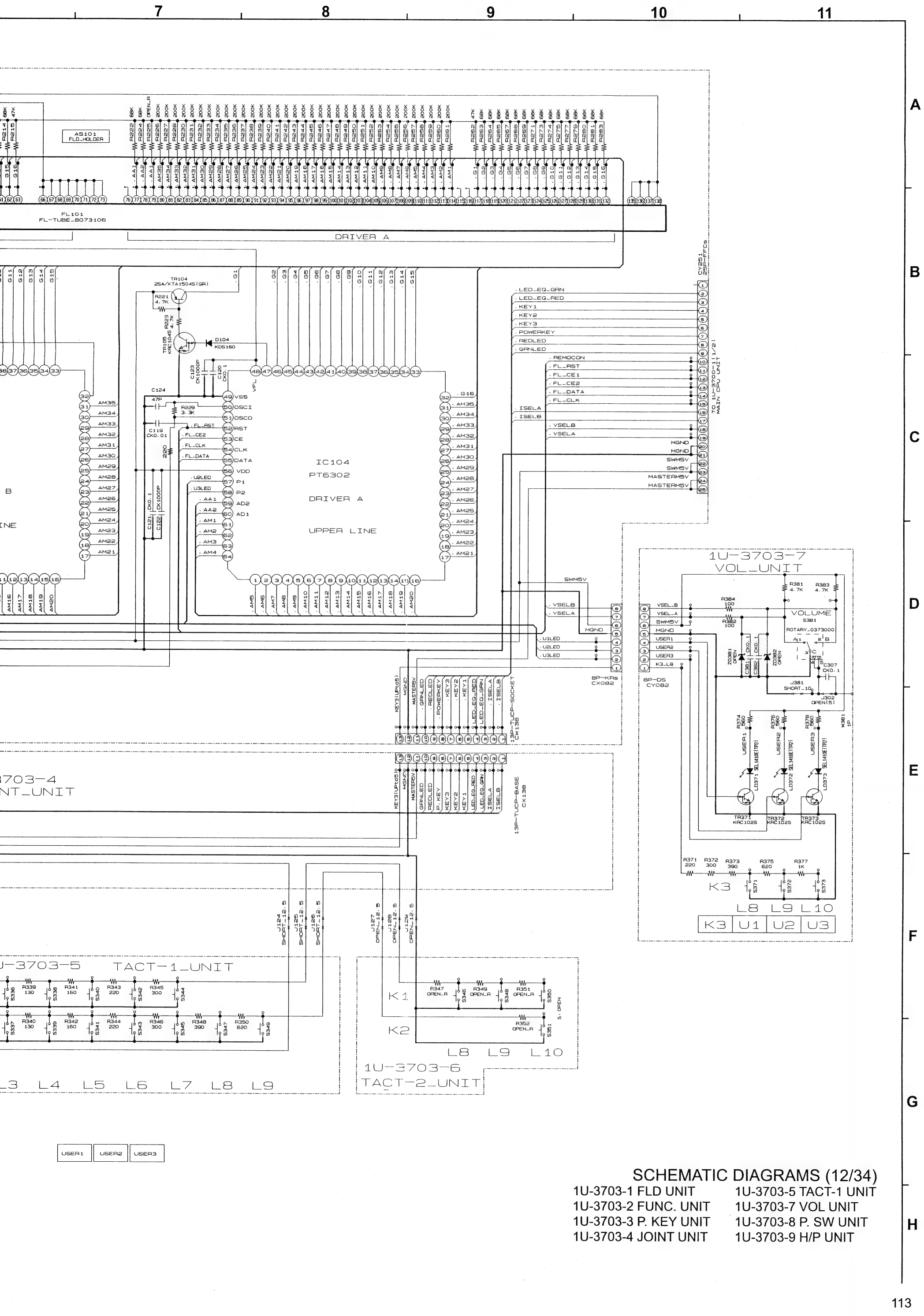
SOURCE | TUNING PRESET | ZONE2/ RECSEL | VIDEO SELECT

CINEMA | ROOM EQ | PURE DIRECT | DIRECT/ STEREO | STAN DARD | DSP SIMU. | UP | SURR. PARA.

LEFT | ENTER | RIGHT

MODE | ANALOG | EXT. IN | SYSTEM SETUP | DOWN | SURR. BACK

USER1 | US

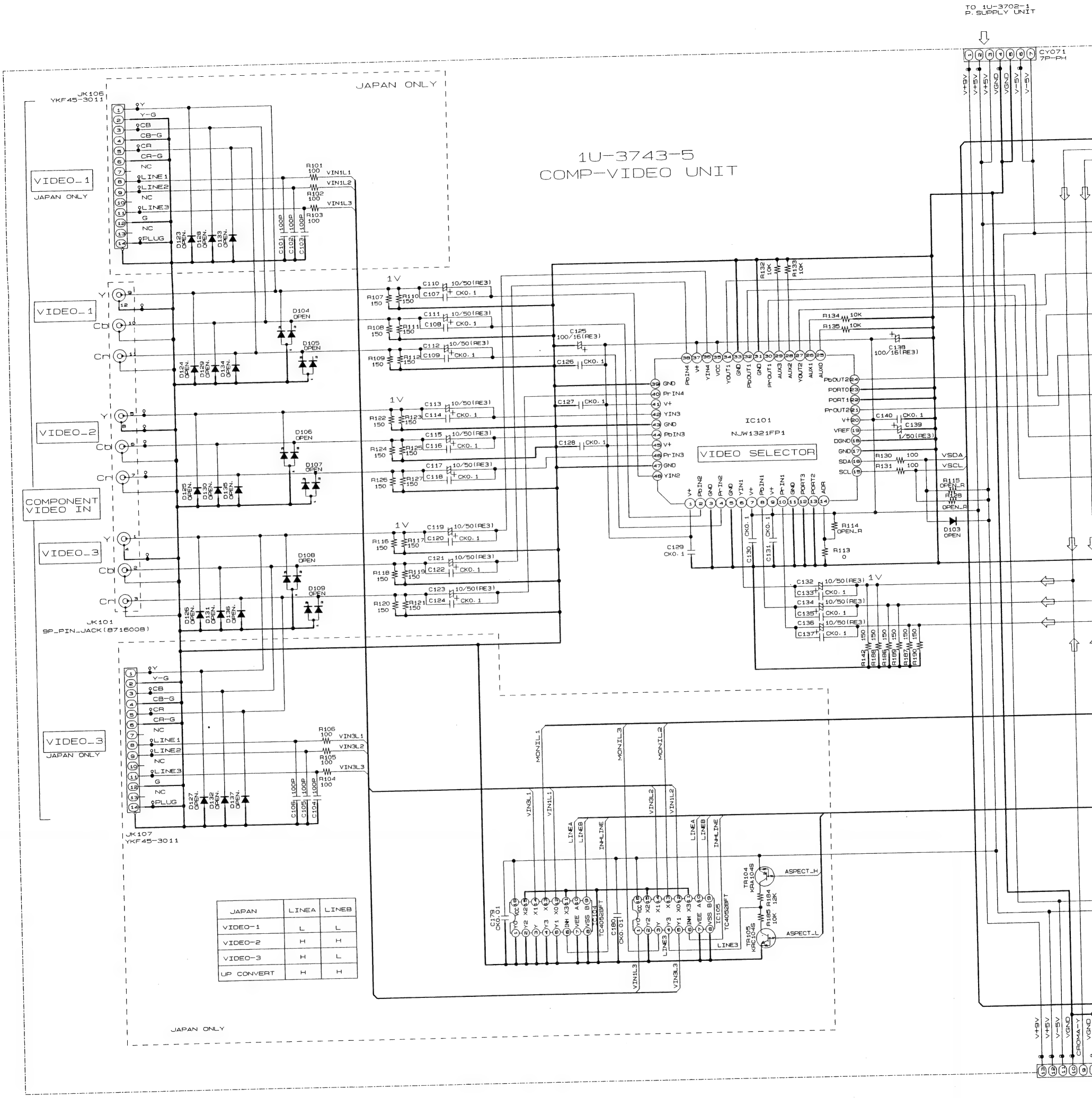


SCHEMATIC DIAGRAMS (12/34)

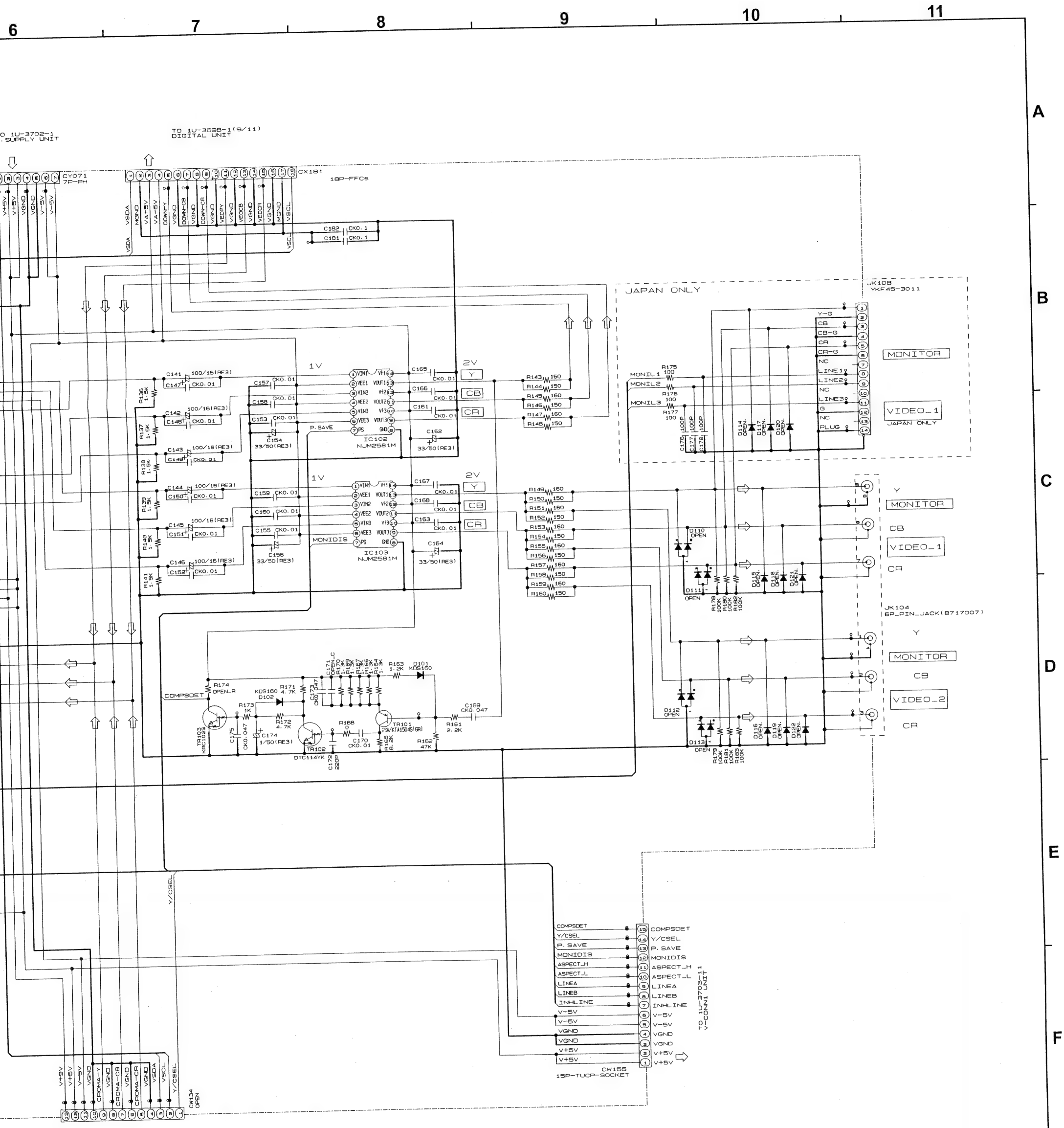
1U-3703-1 FLD UNIT	1U-3703-5 TACT-1 UNIT
1U-3703-2 FUNC. UNIT	1U-3703-7 VOL UNIT
1U-3703-3 P. KEY UNIT	1U-3703-8 P. SW UNIT
1U-3703-4 JOINT UNIT	1U-3703-9 H/P UNIT

SCHEMATIC DIAGRAMS (13/34)

1 2 3 4 5 6



JAPAN	LINEA	LINEB
VIDEO-1	L	L
VIDEO-2	H	H
VIDEO-3	H	L
UP CONVERT	H	H

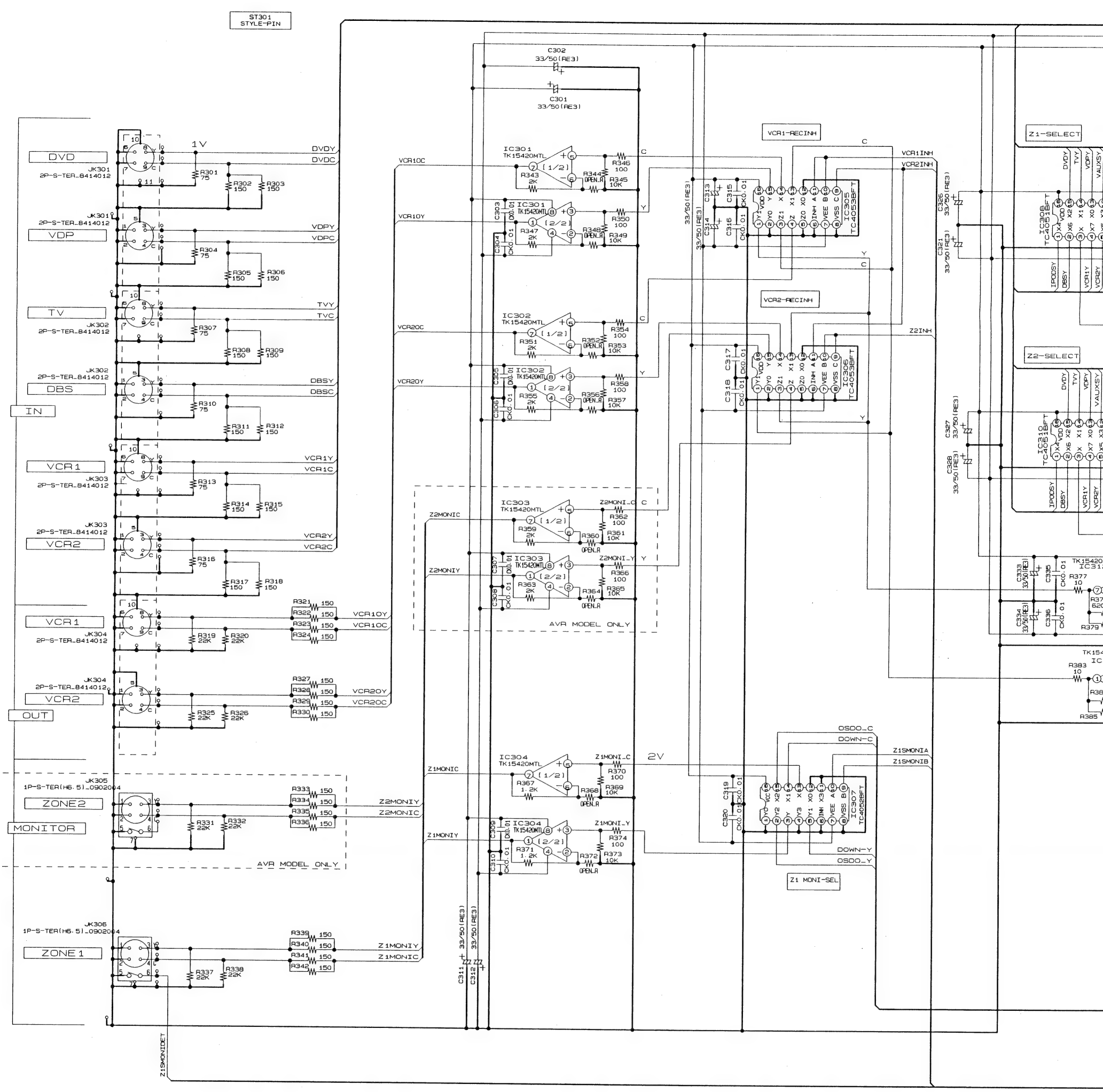


SCHEMATIC DIAGRAMS (13/34)

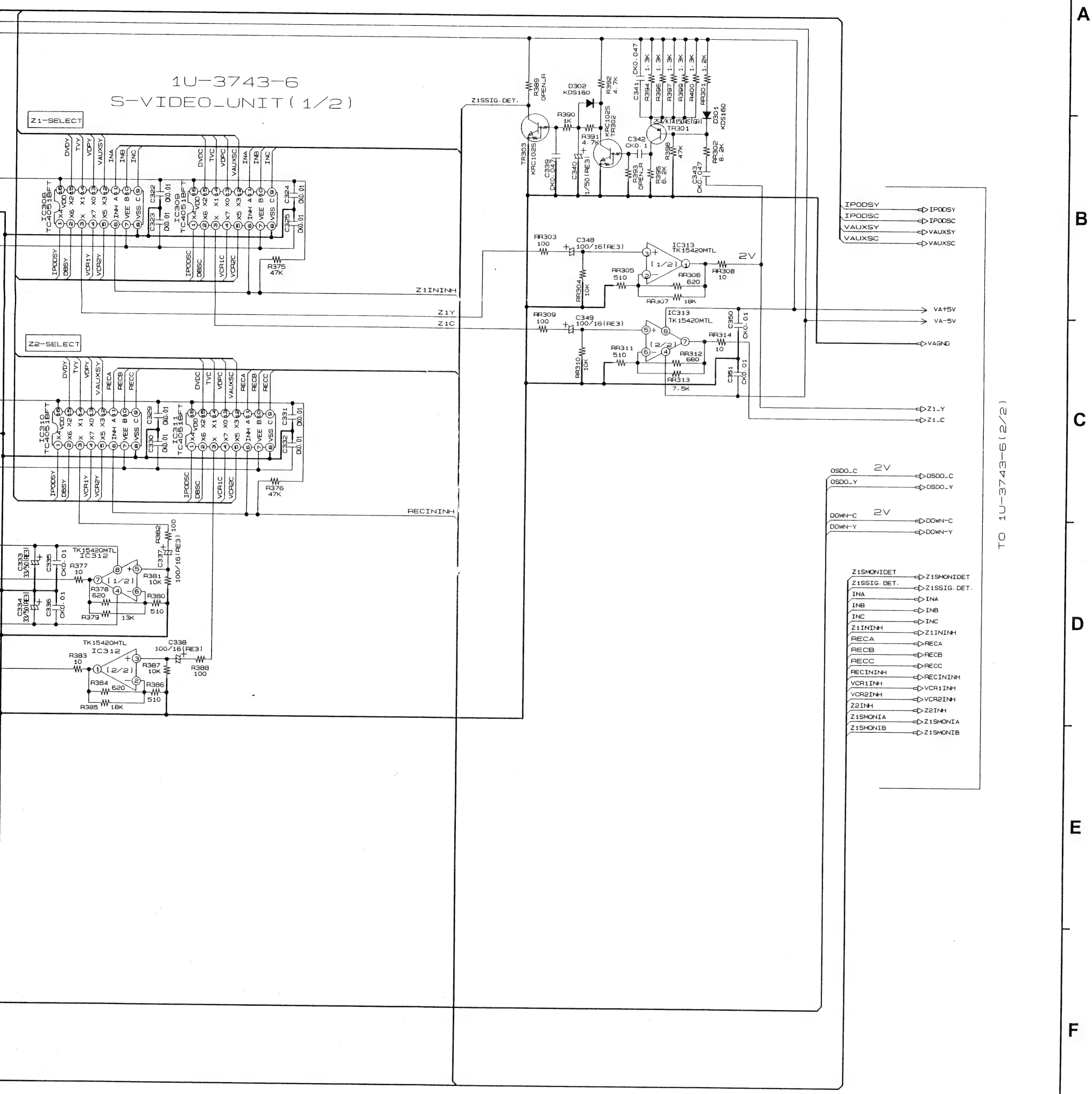
1U-3743-5 COMP-VIDEO UNIT

SCHEMATIC DIAGRAMS (14/34)

1 2 3 4 5 6



1U-3743-6
S-VIDEO_UNIT(1/2)



TO 1U-3743-6(2/2)

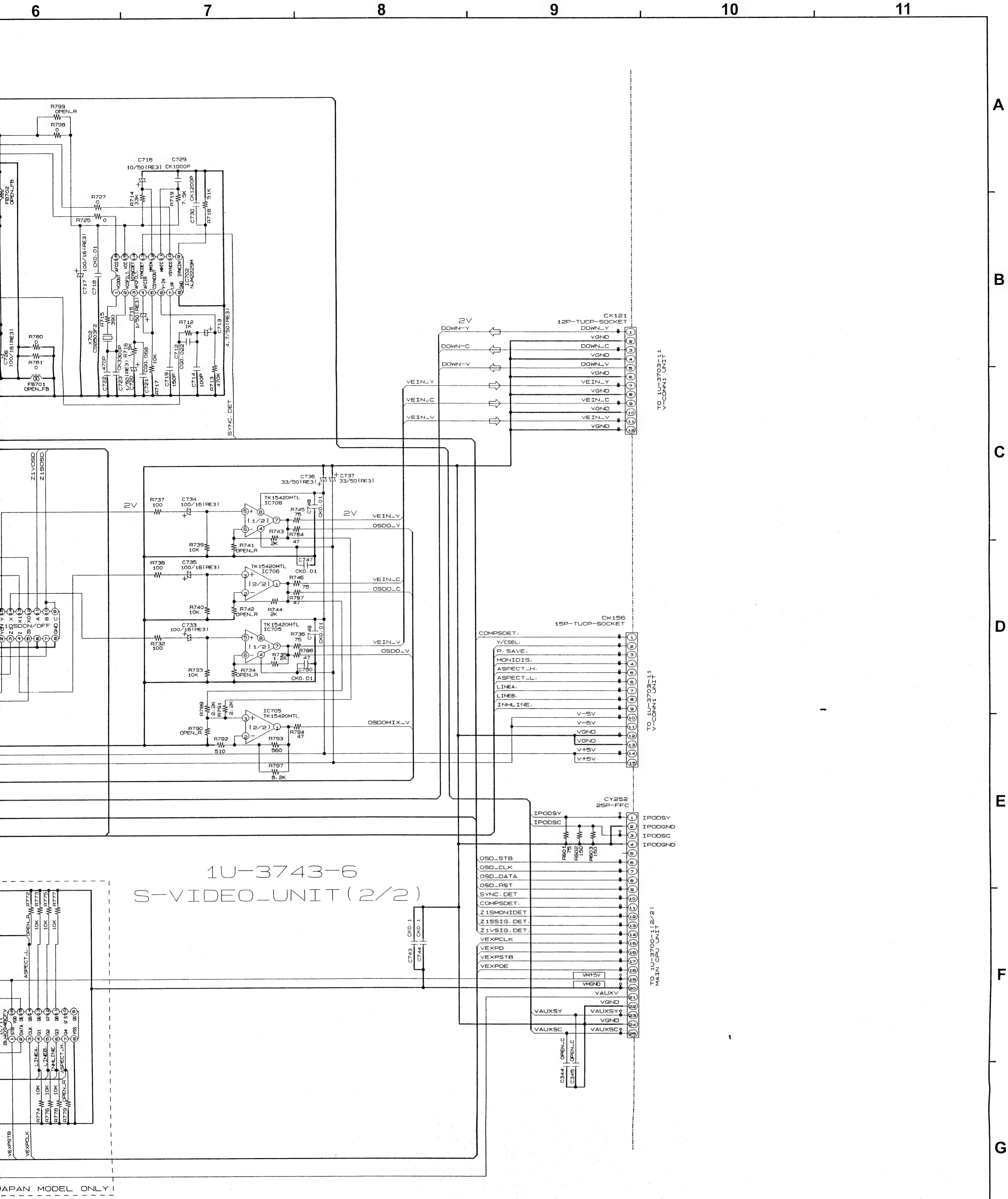
SCHEMATIC DIAGRAMS (14/34)
1U-3743-6 S-VIDEO UNIT (1/2)

1 2 3 4 5 6

	O	1	COM
Y	Z1SY	Z1CVBS	TO OSD
X	GND	OSDOUT	SYOUT
Z	Z1SC	GND	SCOUT

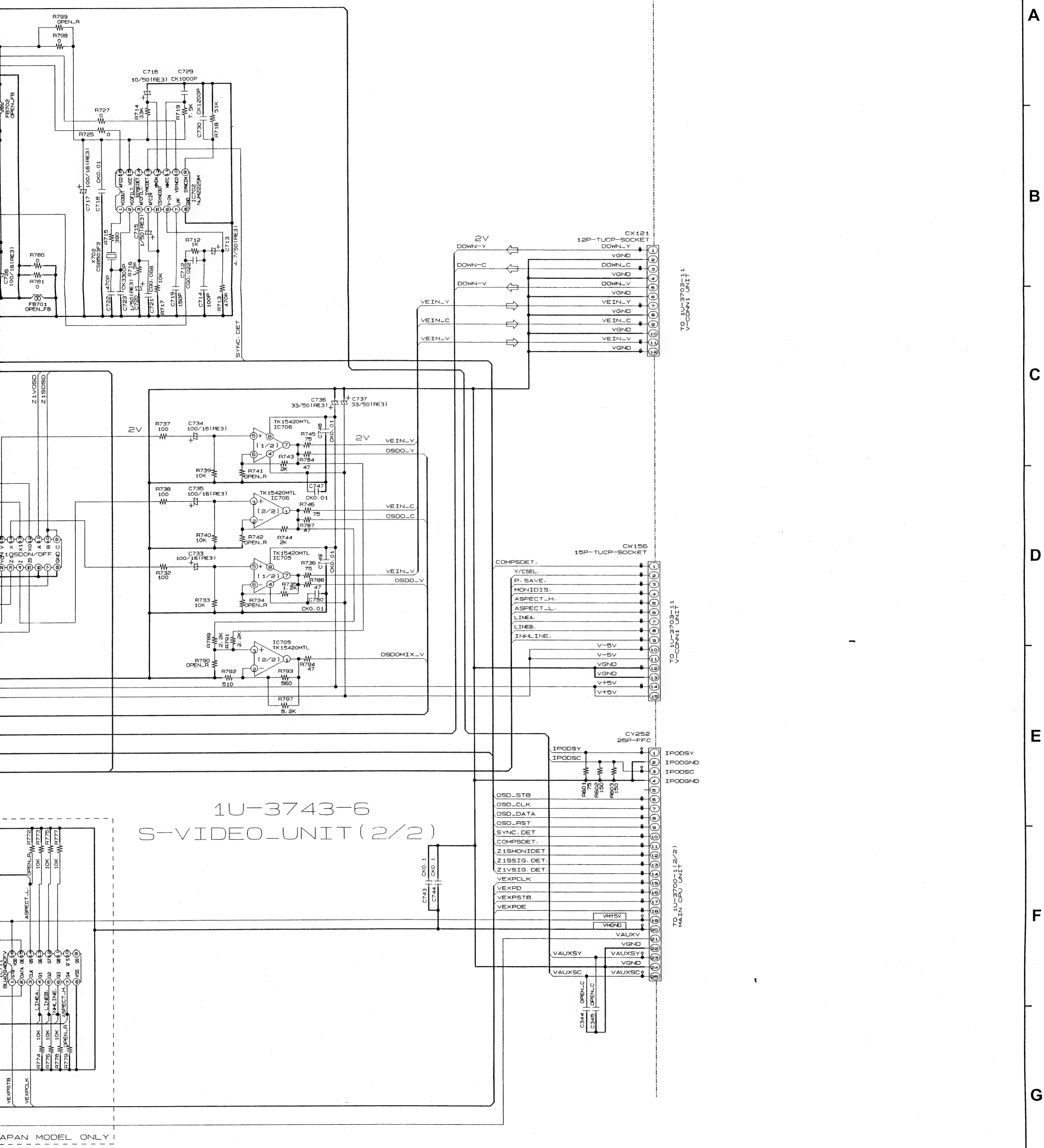
TO 1U-3743-6(1/2)

JAPAN MODEL ONLY



SCHEMATIC DIAGRAMS (15/34)

1U-3743-6 S-VIDEO UNIT (2/2)

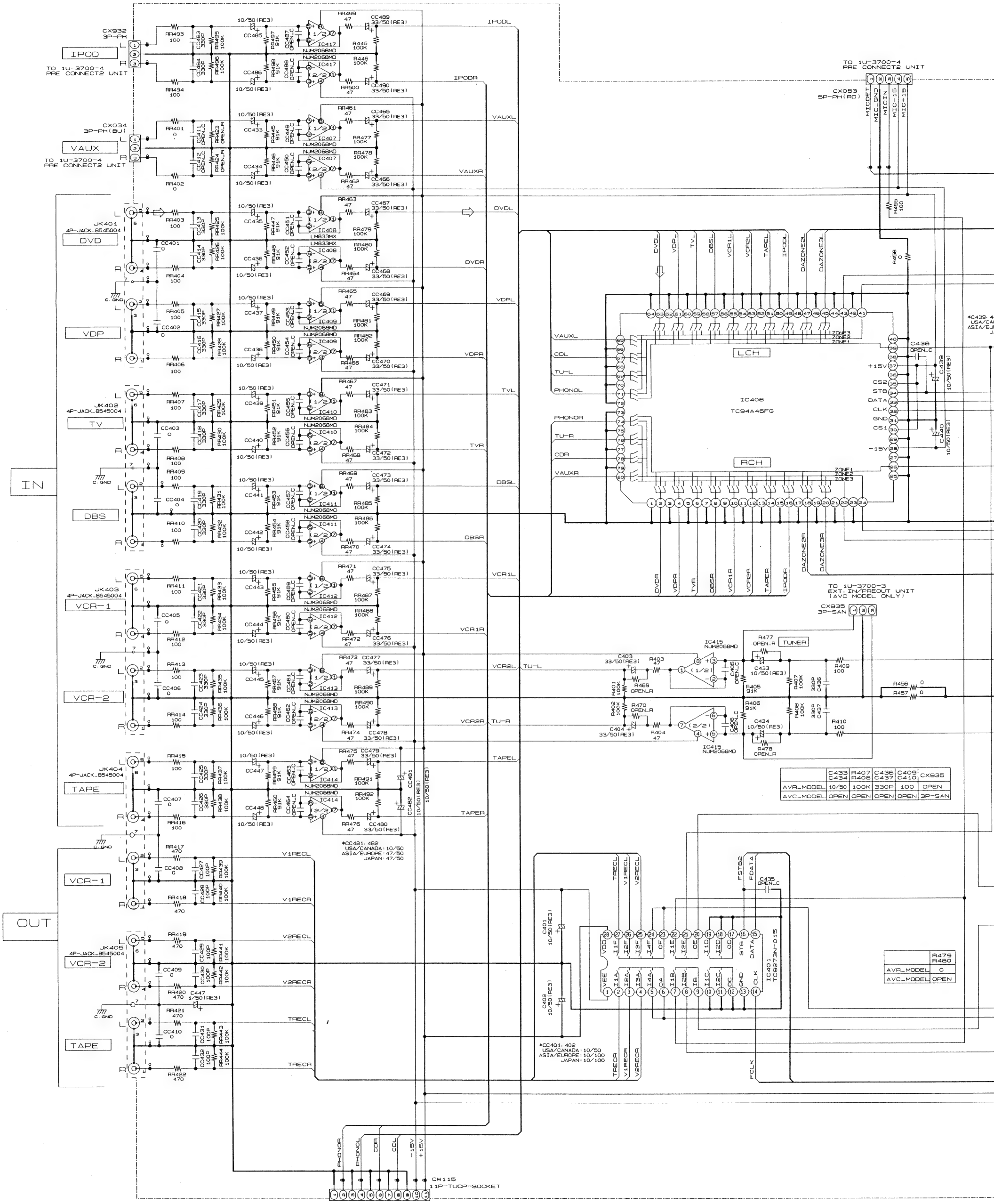


SCHEMATIC DIAGRAMS (15/34)

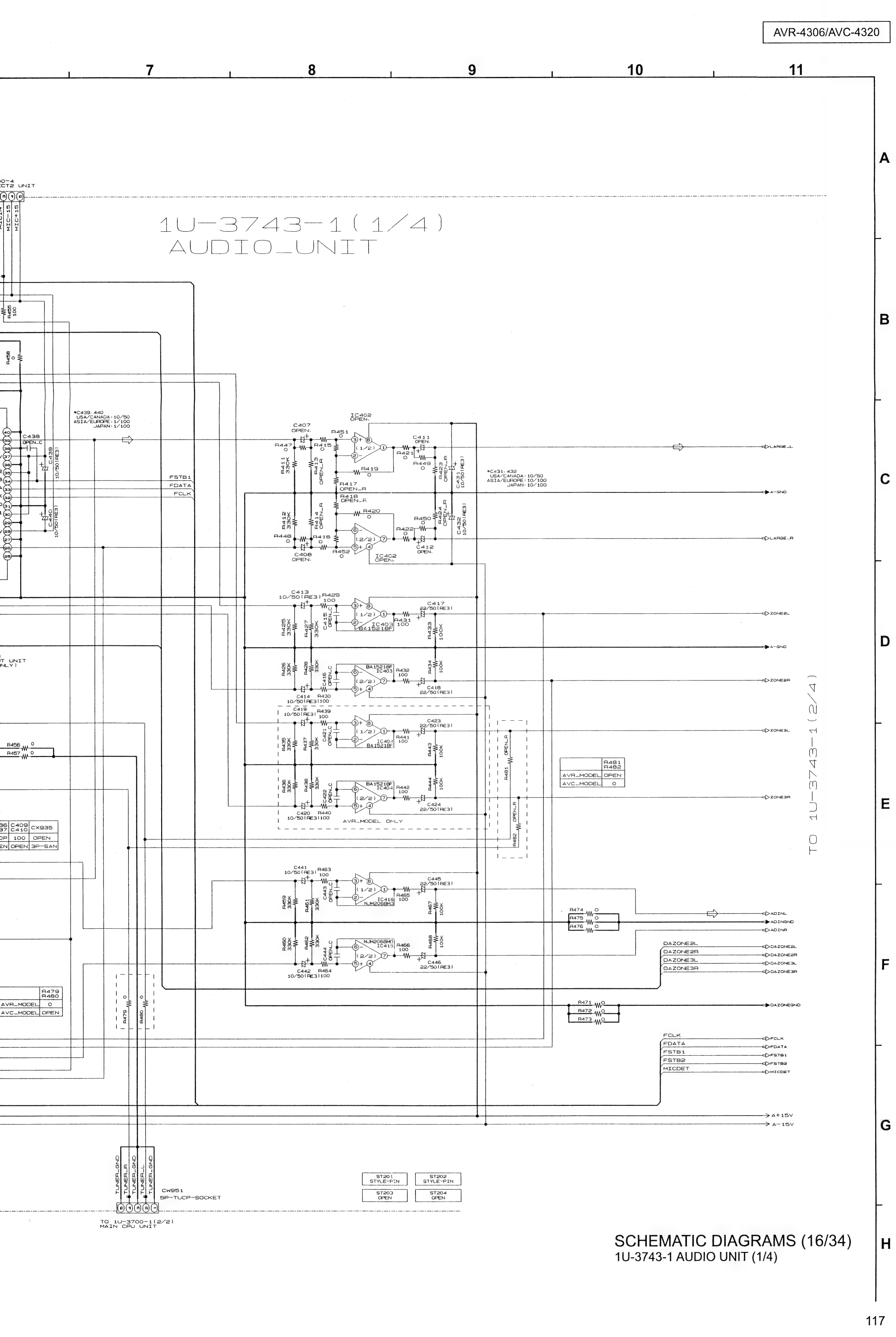
1U-3743-6 S-VIDEO UNIT (2/2)

SCHEMATIC DIAGRAMS (16/34)

1 2 3 4 5 6



1U-3743-1 (1/4) AUDIO UNIT



SCHEMATIC DIAGRAMS (16/34)

1U-3743-1 AUDIO UNIT (1/4)

1 2 3 4 5 6

1U-3743-1(2/4)
AUDIO UNIT

TO 1U-3743-1(1/4)

LARGE_L
A-GND
LARGE_R
ZONE2L
ZONE2R
ZONE3L
ZONE3R
A-GND
ADINL
ADINGND
ADINR
DAZONE2L
DAZONE2R
DAZONE3L
DAZONE3R
DAZONEGND
FCLK
FDATA
FSTB1
FSTB2
MICDET
A+15V
A-15V

DA_SL
DA_FL
DA_FR
DA_SR
DA_SBL
DA_C
DA_SW
DA_SBR

TR717-720
KTC2875B

SL
FL
FR
SR
SBL
C
SW
SBR
Z2L
Z2R
Z3L
Z3R
AD
AD

R594 OPEN_R
R595 OPEN_R
R596 OPEN_R

AVR_MODEL ONLY

ADMUTE

EXTIN-FR
EXTIN-FL
EXTIN-SW
EXTIN-C
EXTIN-SR
EXTIN-SL
EXTIN-SBR
EXTIN-SBL

DAZ3MUTE
DAZ2MUTE
DAZ2L
DAZ2R
DAZ3L
DAZ3R

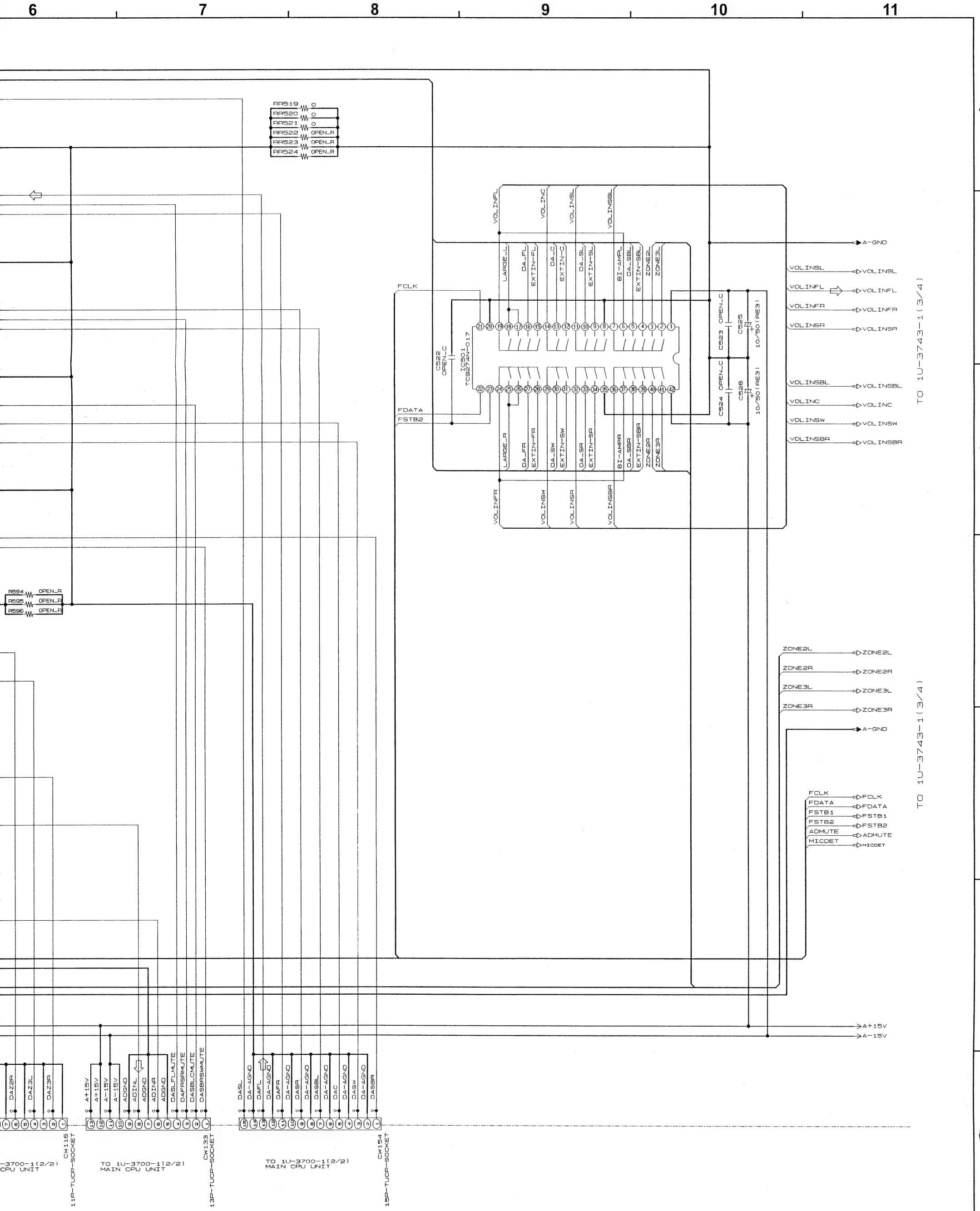
A+15V
A+15V
A-15V
A-15V

TO 1U-3703-14
EXT. CONNECT UNIT

CW158
15P-TUCP-SOCKET

TO 1U-3700-1(2/2)
MAIN CPU UNIT

CW116
11P-TUCP-SOCKET



SCHEMATIC DIAGRAMS (17/34)

1U-3743-1 AUDIO UNIT (2/4)

SCHEMATIC DIAGRAMS (18/34)

1 2 3 4 5 6

	IC207 IC208 IC209 IC210	C203-204 C215-216 C229-230 C241-242	R205-206 R229-230 R253-254 R277-278	C205-208 C217-220 C231-234 C243-246	R209-210-213-214 R233-234-237-238 R257-258-261-262 R281-282-285-286	C211-212 C223-224 C237-238 C249-250
USA/DANADA	SA5532	47/25	OPEN	1/50	OPEN	10/50
ASIA/EUROPE	AD8512	OPEN	0	OPEN	0	10/100
JAPAN	AD8512	OPEN	0	OPEN	0	10/100

TO 1U-3743-1 (2/4)

VOLINSL
A-GND
VOLINFL
VOLINFR
VOLINSR
VOLINSBL
VOLINC
VOLINSW
VOLINSBR
ZONE2L
A-GND
ZONE2R
ZONE3L
ZONE3R
FCLK
FDATA
FSTB1
FSTB2
ADMUTE
MICDET
A+15V
A-15V

E. VOL_CLK
E. VOL_DATA
E. VOL_STBB
E. VOL_STBA

IC201 TC9443F
IC202 TC9443F
IC203 TC9443F
IC204 TC9443F
IC205 TC9459BFG
IC211 TC9459BFG

IC207 SA5532ADR [1/2]
IC208 SA5532ADR [1/2]
IC209 SA5532ADR [2/2]
IC210 SA5532ADR [2/2]
IC205 BA15218F [1/2]
IC206 BA15218F [2/2]
IC212 BA15218F [1/2]
IC213 BA15218F [2/2]

SL
FL
FR
SR
SBL
C
SBR
SW
ZONE2L
ZONE2R
ZONE3L
ZONE3R

W201 W202 W203 W204 W205 W206 W207 W208

OPEN W209

AVR_MODEL ONLY

6 7 8 9 10 11

A B C D E F G H

1U-3743-1(3/4)
AUDIO_UNIT

CW153
15P-TUCP-SOCKET

PREFL
PREGND
PREFR
PREGND
PREC
PREGND
PRESW
PREGND
PRESL
PREGND
PRESR
PREGND
PRESBL
PREGND
PRESBR

TO 1U-3702-4
PRE CONNECT UNIT

CW974
7P-TUCP-SOCKET

PREZ2L
PREGND
PREZ2R
PREGND
PREZ3L
PREGND
PREZ3R

TO 1U-3702-4
PRE CONNECT UNIT

AMPGND → AMPGND
AMPFL → AMPFL
AMPFR → AMPFR
AMPC → AMPC
AMPSL → AMPSL
AMPSR → AMPSR
AMPSBL → AMPSBL
AMPSBR → AMPSBR

TO 1U-3743-1(4/4)

PRERETGND
A+15V
A-15V
HIGH+B

ASIGDET
A+BLIMIT
LIMIT

RA233 0
RA234 0
RA235 0

CW162
16P-TUCP-SOCKET

ASIGDET1
MICDET
ADMUTE
FSTB2
FSTB1
FDATA
FCLK
E.VOL_CLK
E.VOL_DATA
E.VOL_STBA
E.VOL_STBB
A+BLIMIT
LIMIT
PRECPUGND
PRECPUGND
HIGH+B(MUTE)

TO 1U-3700-1(2/2)
MAIN CPU UNIT

W501 OPEN
W502 OPEN

SCHEMATIC DIAGRAMS (18/34)
1U-3743-1 AUDIO UNIT (3/4)

1 2 3 4 5 6

1U-3743-1(4/4)
AUDIO UNIT

TO 1U-3743-1(3/4)

AMPGND
AMPFL
AMPFR
AMPC
AMPSL
AMPSR
AMPSBL
AMPSBR

R884 0
R885 0

FL
FR
C
SL
SR
SBL
SBR

C801 OPEN
C802 OPEN
C803 OPEN
C804 OPEN
C805 OPEN
C806 OPEN
C807 OPEN
C808 OPEN
C809 OPEN
C810 OPEN
C811 OPEN
C812 OPEN
C813 OPEN
C814 OPEN

R801 OPEN
R802 OPEN
R803 OPEN
R804 OPEN
R805 OPEN
R806 OPEN
R807 OPEN
R808 OPEN
R809 OPEN
R810 OPEN
R811 OPEN
R812 OPEN
R813 OPEN
R814 OPEN
R815 OPEN
R816 OPEN
R817 OPEN
R818 OPEN
R819 OPEN
R820 OPEN
R821 OPEN
R822 OPEN
R823 OPEN
R824 OPEN
R825 OPEN
R826 OPEN
R827 OPEN
R828 OPEN

OPEN IC801 (2/2)
OPEN IC802 (2/2)
IC801 OPEN (1/2)
IC802 OPEN (1/2)
OPEN IC803 (2/2)
OPEN IC803 (2/1)
OPEN IC804 (2/2)
OPEN IC805 (2/2)
IC804 OPEN (1/2)
IC805 OPEN (1/2)
OPEN IC806 (2/2)
OPEN IC807 (2/2)
IC806 OPEN (1/2)
IC807 OPEN (1/2)

D801 OPEN
D802 OPEN
D803 OPEN
D804 OPEN
D805 OPEN
D806 OPEN
D807 OPEN
D808 OPEN
D809 OPEN
D810 OPEN
D811 OPEN
D812 OPEN
D813 OPEN
D814 OPEN

R829 OPEN
R830 OPEN
R831 OPEN
R832 OPEN
R833 OPEN
R834 OPEN
R835 OPEN
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R848 OPEN
R849 OPEN
R850 OPEN
R851 OPEN
R852 OPEN
R853 OPEN
R854 OPEN
R855 OPEN
R856 OPEN
R857 OPEN
R858 OPEN
R859 OPEN
R860 OPEN_R
R861 0

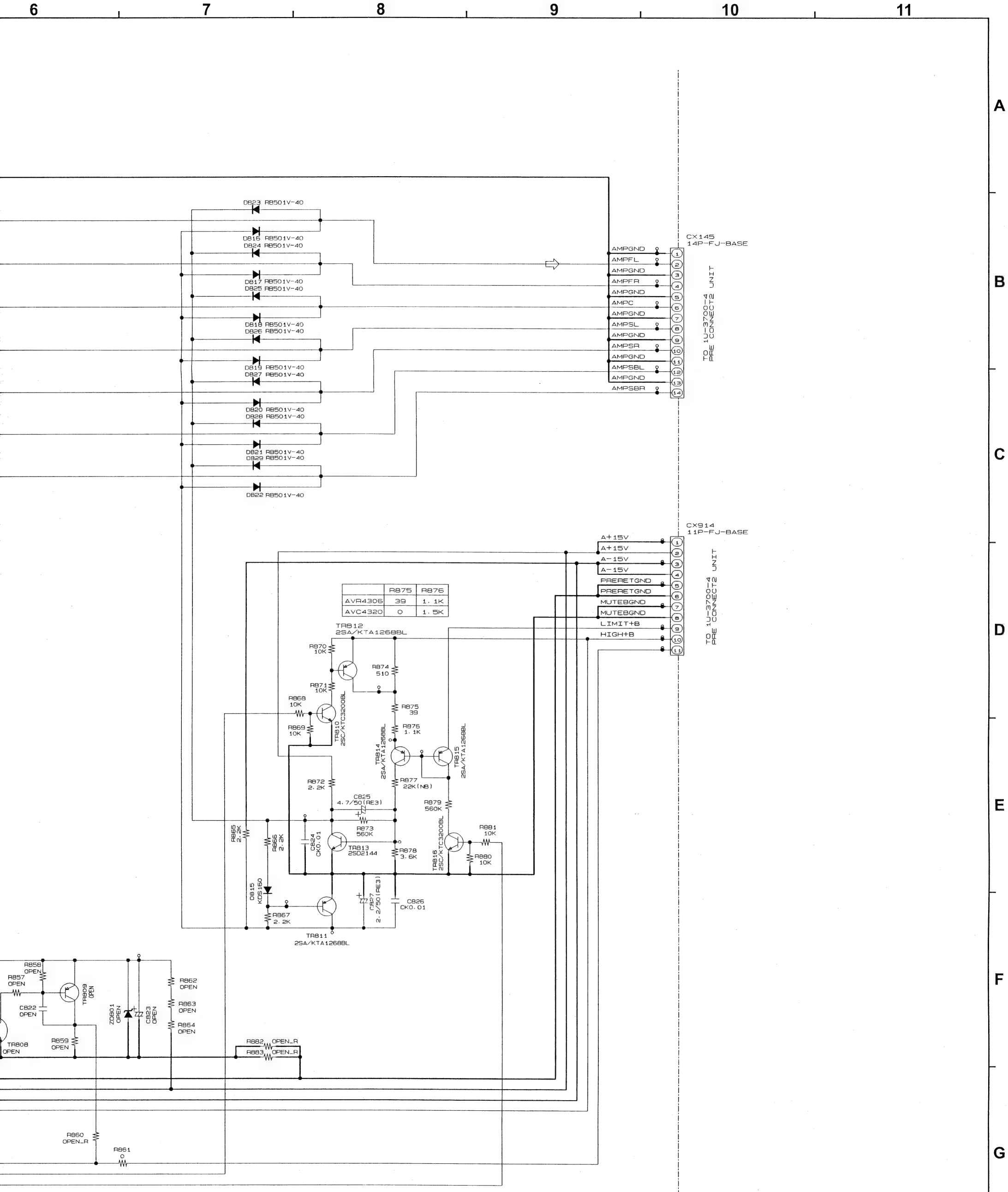
C815 OPEN
C816 OPEN
C817 OPEN
C818 OPEN
C819 OPEN
C820 OPEN
C821 OPEN
C822 OPEN

TR801 OPEN
TR802 OPEN
TR803 OPEN
TR804 OPEN
TR805 OPEN
TR806 OPEN
TR807 OPEN
TR808 OPEN
TR809 OPEN

ZD801 OPEN

TO 1U-3743-1(3/4)

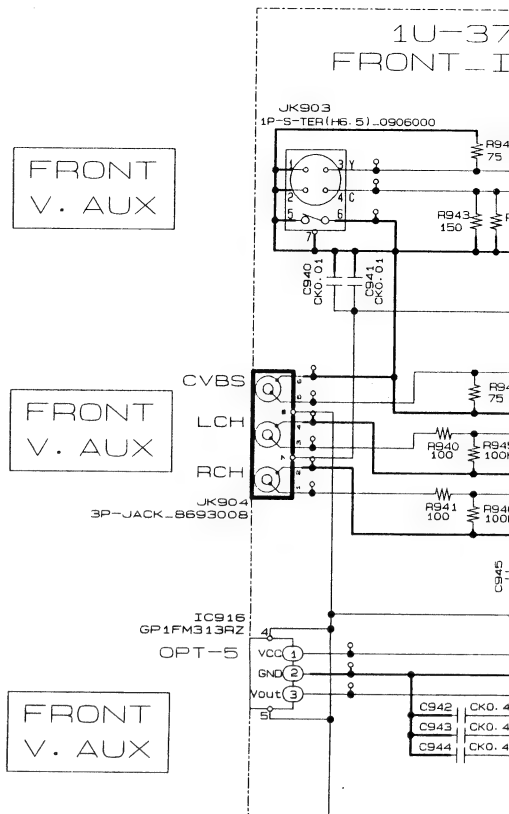
PRERETGND
A+15V
A-15V
HIGH+B
ASIGDET
A+BLIMIT
LIMIT

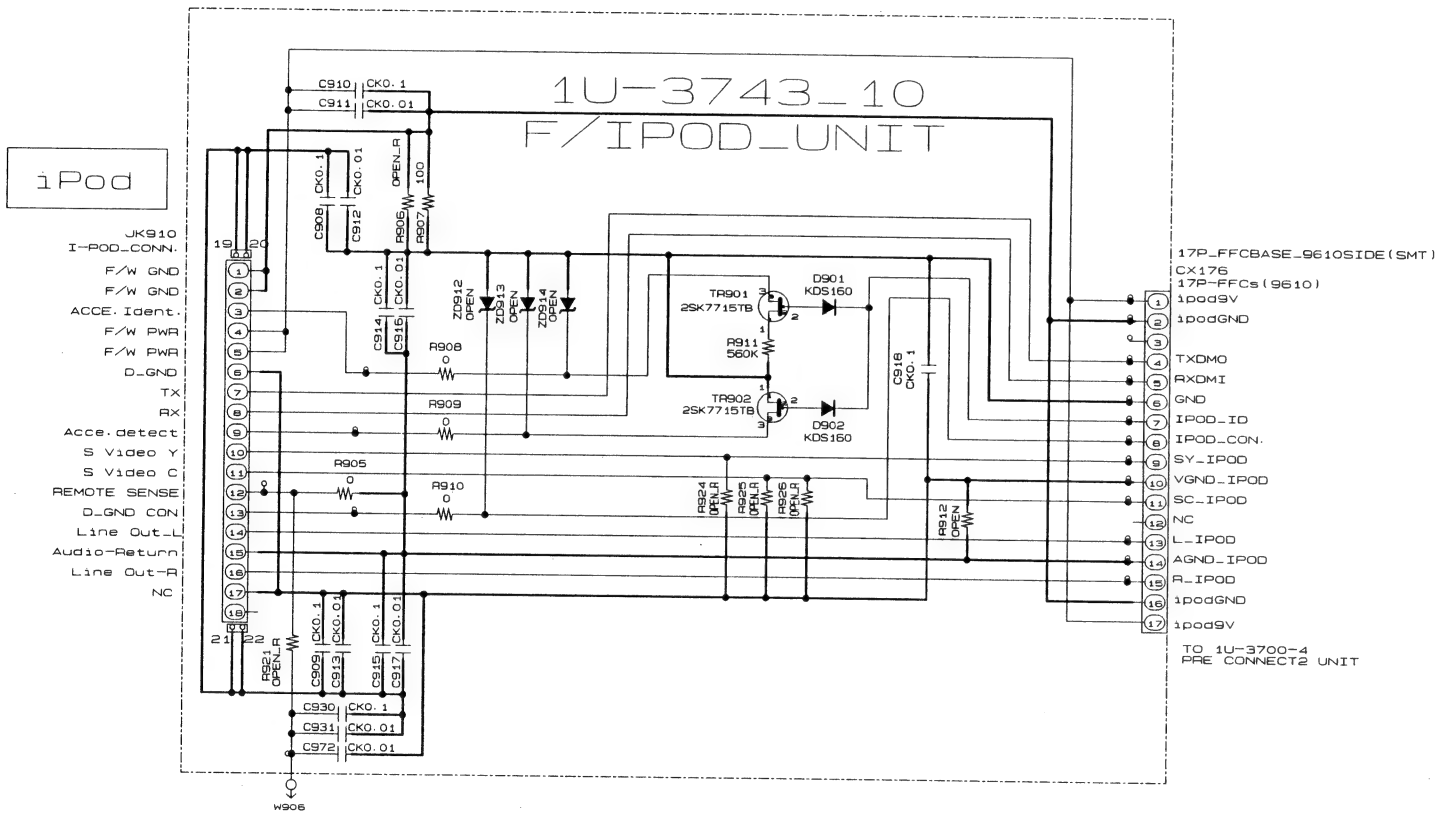


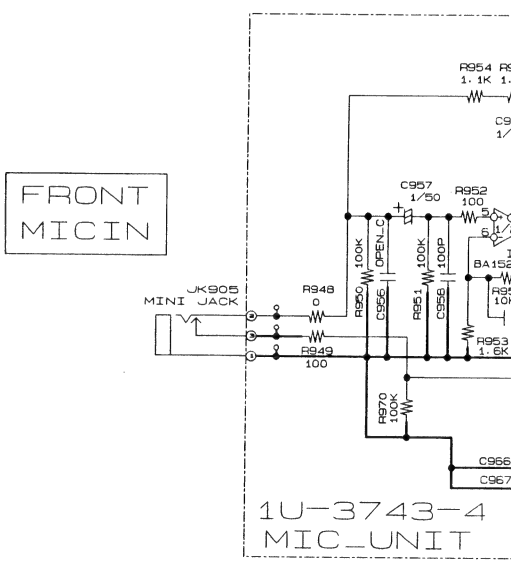
SCHEMATIC DIAGRAMS (19/34)

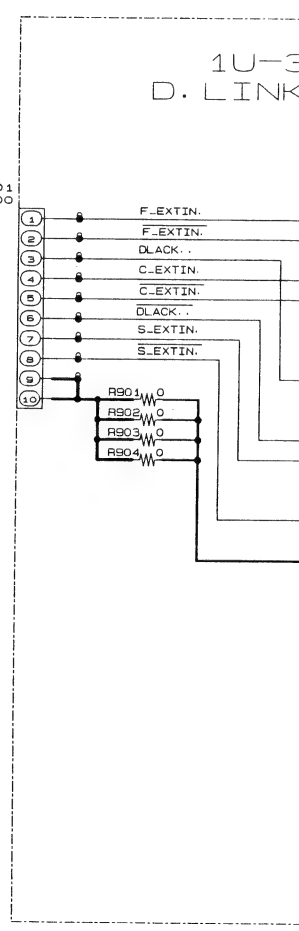
1U-3743-1 AUDIO UNIT (4/4)

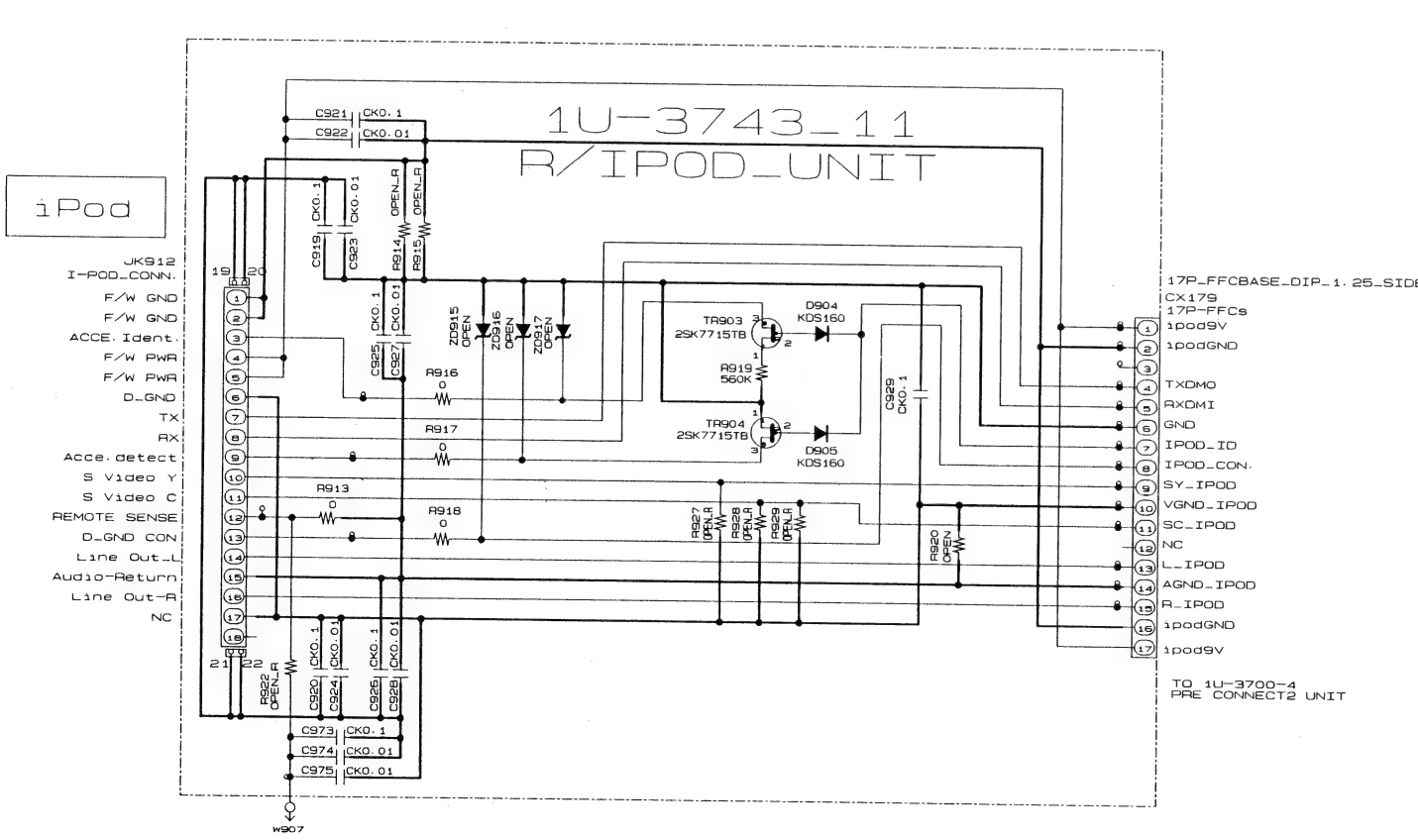
1 2 3 4 5 6


1U-37
FRONT_I
JK903
1P-S-TER(H6.5)_0906000
FRONT
V. AUX
CVBS
LCH
RCH
JK904
3P-JACK_8693008
FRONT
V. AUX
IC916
GP1FM313AZ
OPT-5
VCC
GND
Vout
FRONT
V. AUX

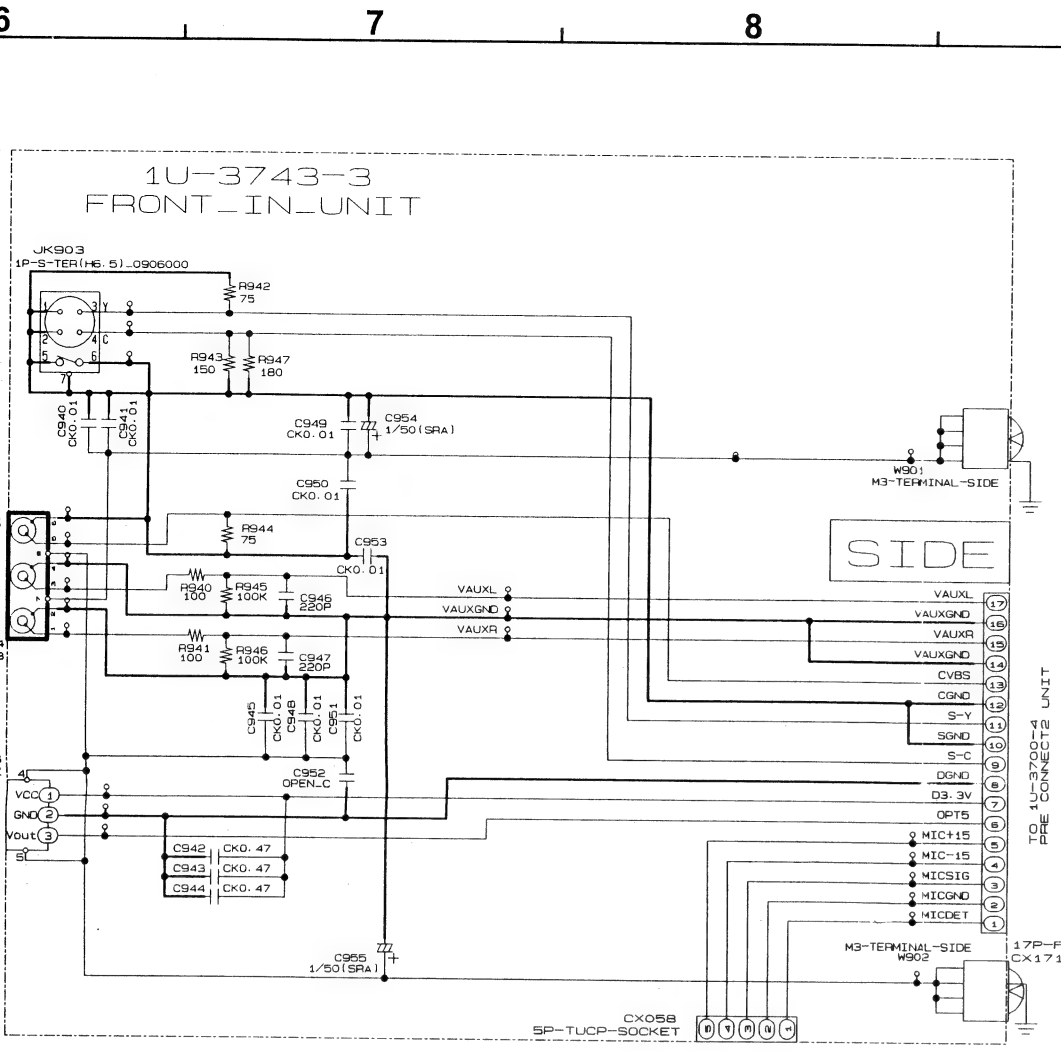

1U-3743_10
F/IPOD_UNIT
iPod
JK910
I-POD_CONN.
F/W GND
F/W GND
ACCE. Ident.
F/W PWR
F/W PWR
D_GND
TX
RX
Acce. detect
S Video Y
S Video C
REMOTE SENSE
D_GND CON
Line Out_L
Audio-Return
Line Out-R
NC
17P_FFCBASE_9610SIDE(SMT)
CX176
17P-FFCs(9610)
ipod9V
ipodGND
TXDMO
RXDMI
GND
IPOD_ID
IPOD_CON.
SY_IPOD
VGND_IPOD
SC_IPOD
NC
L_IPOD
AGND_IPOD
R_IPOD
ipodGND
ipod9V
TO 1U-3700-4
PRE CONNECT2 UNIT
TR901
2SK7715TB
TR902
2SK7715TB
D901
KDS160
D902
KDS160
W906

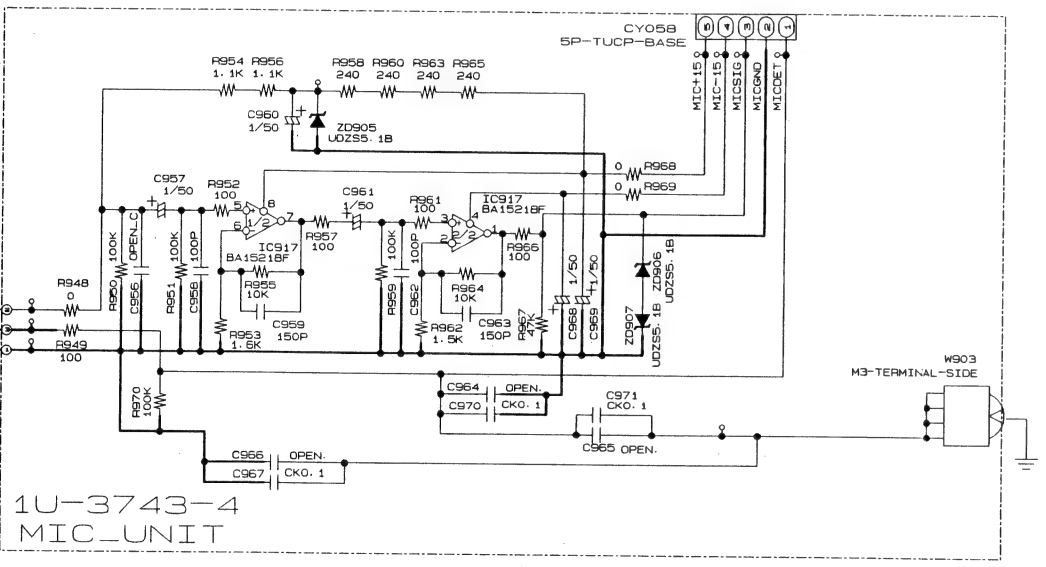

FRONT
MICIN
JK905
MINI JACK
1U-3743-4
MIC_UNIT

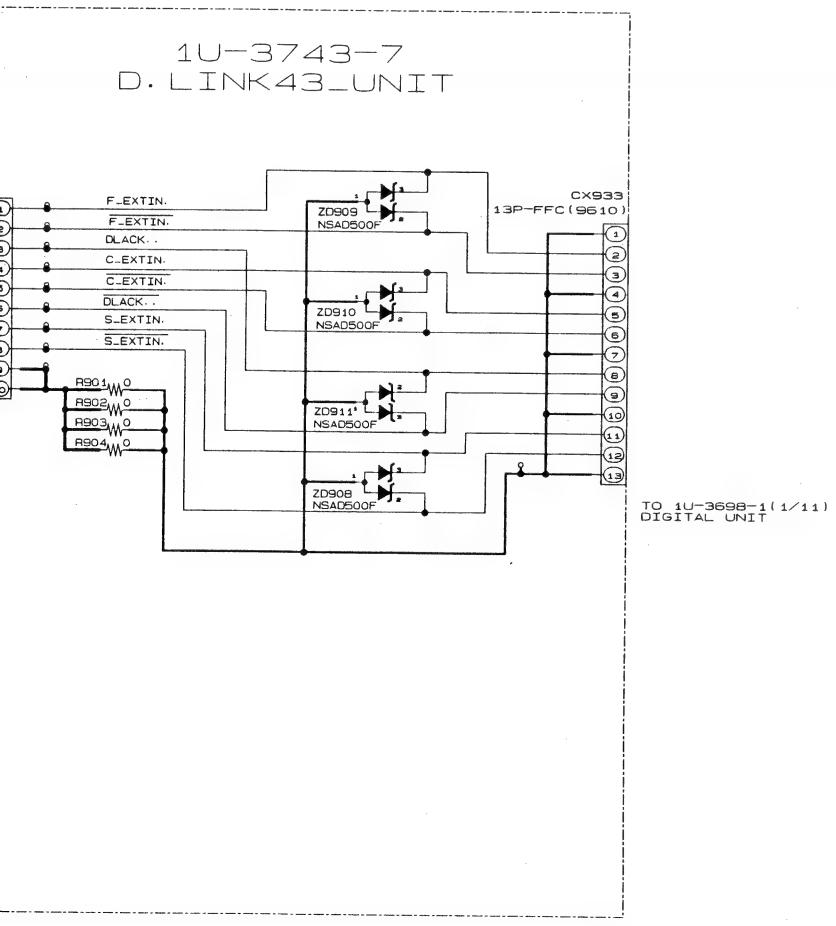

1U-3
D. LINK

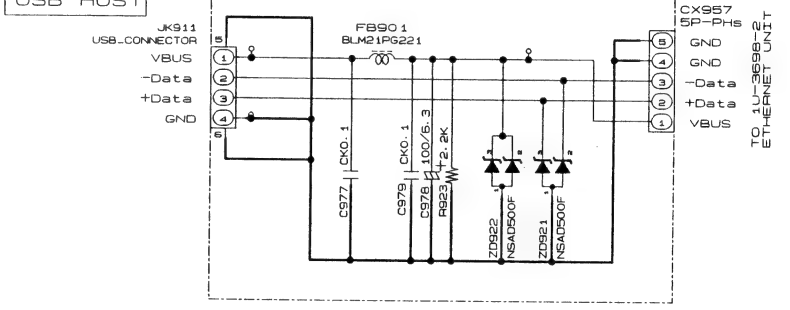

1U-3743_11
R/IPOD_UNIT
iPod
JK912
I-POD_CONN.
F/W GND
F/W GND
ACCE. Ident.
F/W PWR
F/W PWR
D_GND
TX
RX
Acce. detect
S Video Y
S Video C
REMOTE SENSE
D_GND CON
Line Out_L
Audio-Return
Line Out-R
NC
17P_FFCBASE_DIP_1.25_SIDE
CX179
17P-FFCs
ipod9V
ipodGND
TXDMO
RXDMI
GND
IPOD_ID
IPOD_CON.
SY_IPOD
VGND_IPOD
SC_IPOD
NC
L_IPOD
AGND_IPOD
R_IPOD
ipodGND
ipod9V
TO 1U-3700-4
PRE CONNECT2 UNIT
TR903
2SK7715TB
TR904
2SK7715TB
D904
KDS160
D905
KDS160
W907

JK901
JACK_1222000
D. LINK
INPUT
F_EXTIN.
F_EXTIN.
DLACK..
C_EXTIN.
C_EXTIN.
DLACK..
S_EXTIN.
S_EXTIN.







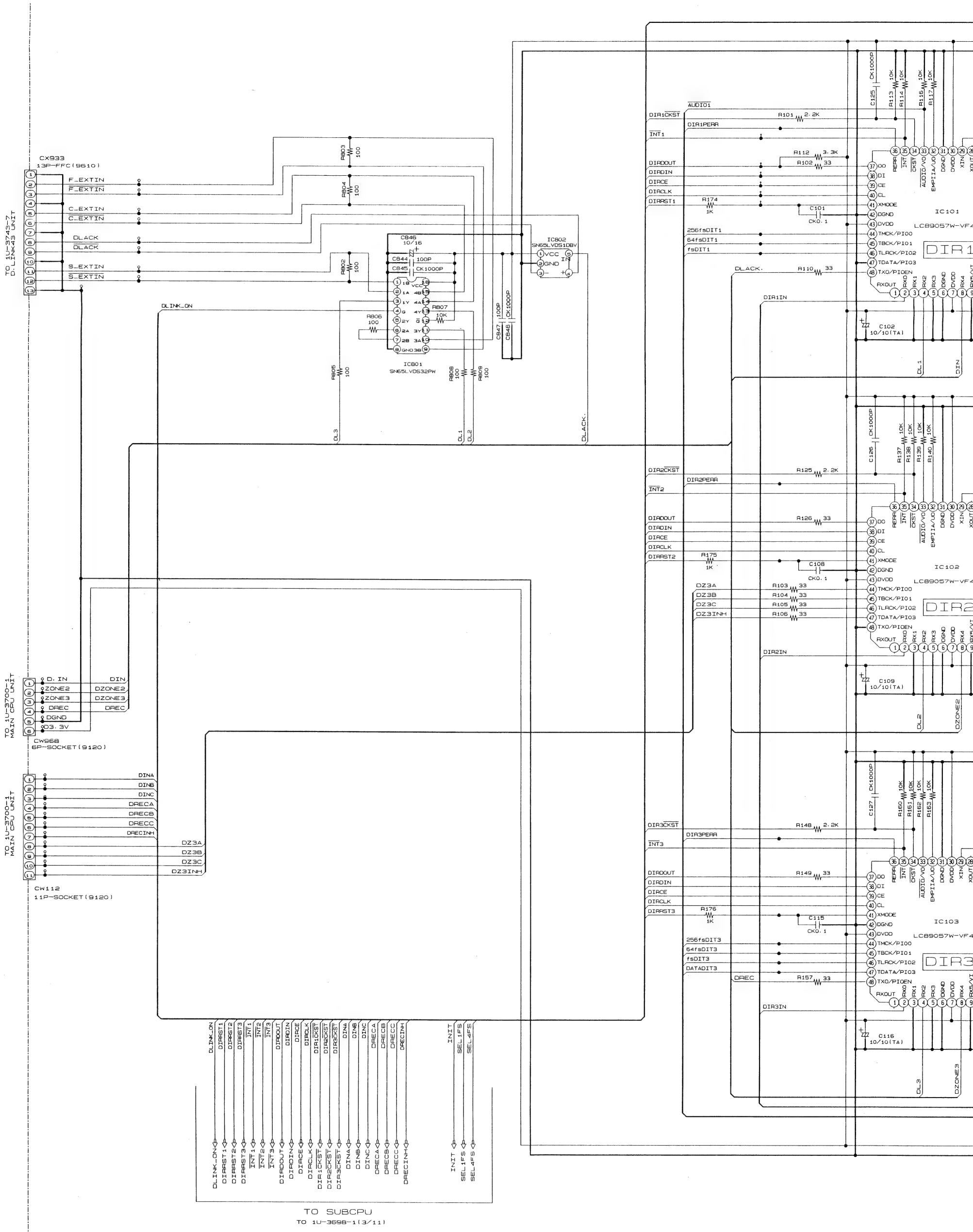


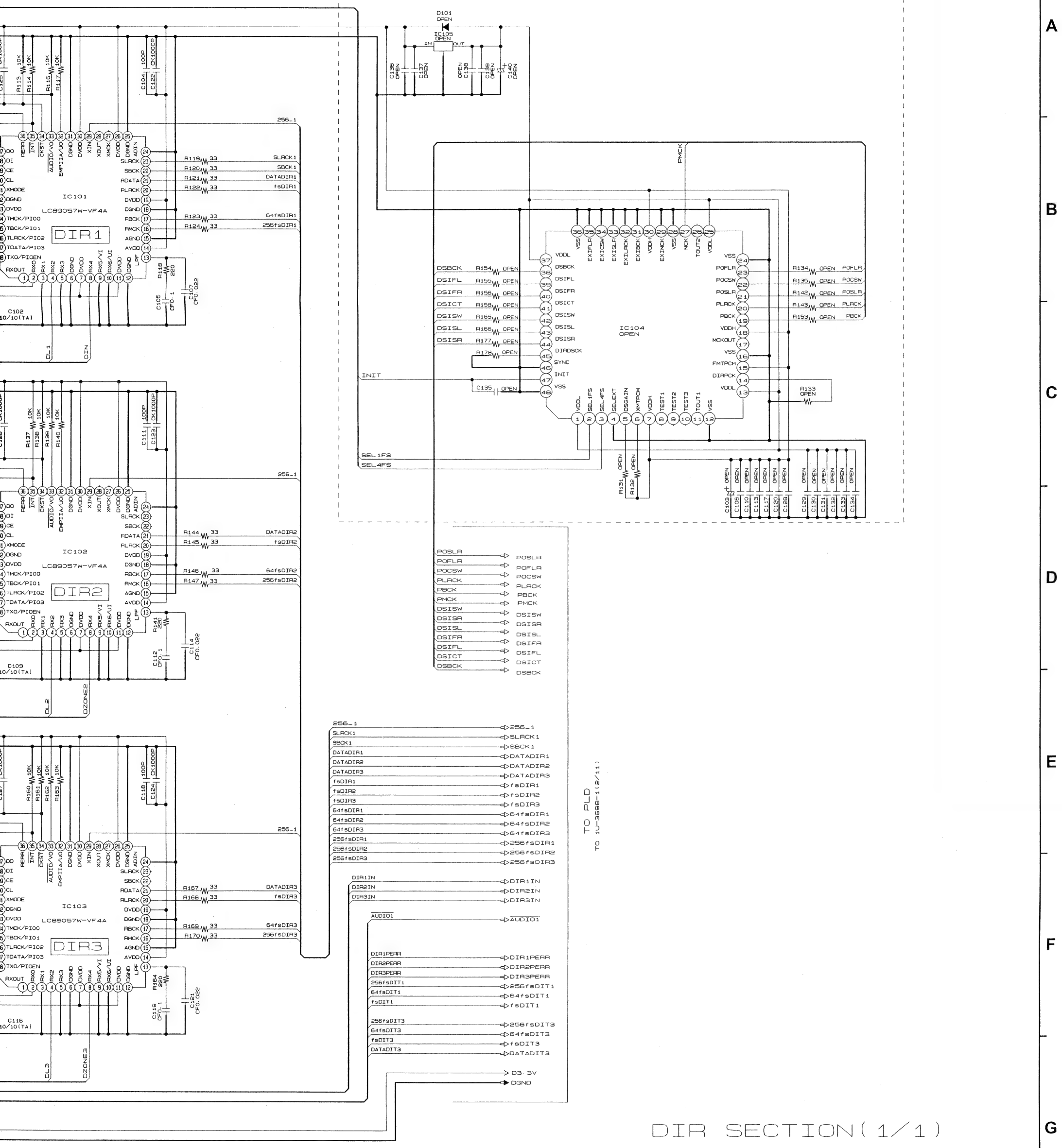
SCHEMATIC DIAGRAMS (20/34)

1U-3743-3 FRONT IN UNIT
1U-3743-4 MIC UNIT
1U-3743-7 D. LINK-43 UNIT
1U-3743-9 USB UNIT
1U-3743-10 F/IPOD UNIT
1U-3743-11 R/IPOD UNIT

SCHEMATIC DIAGRAMS (21/34)

1 2 3 4 5 6



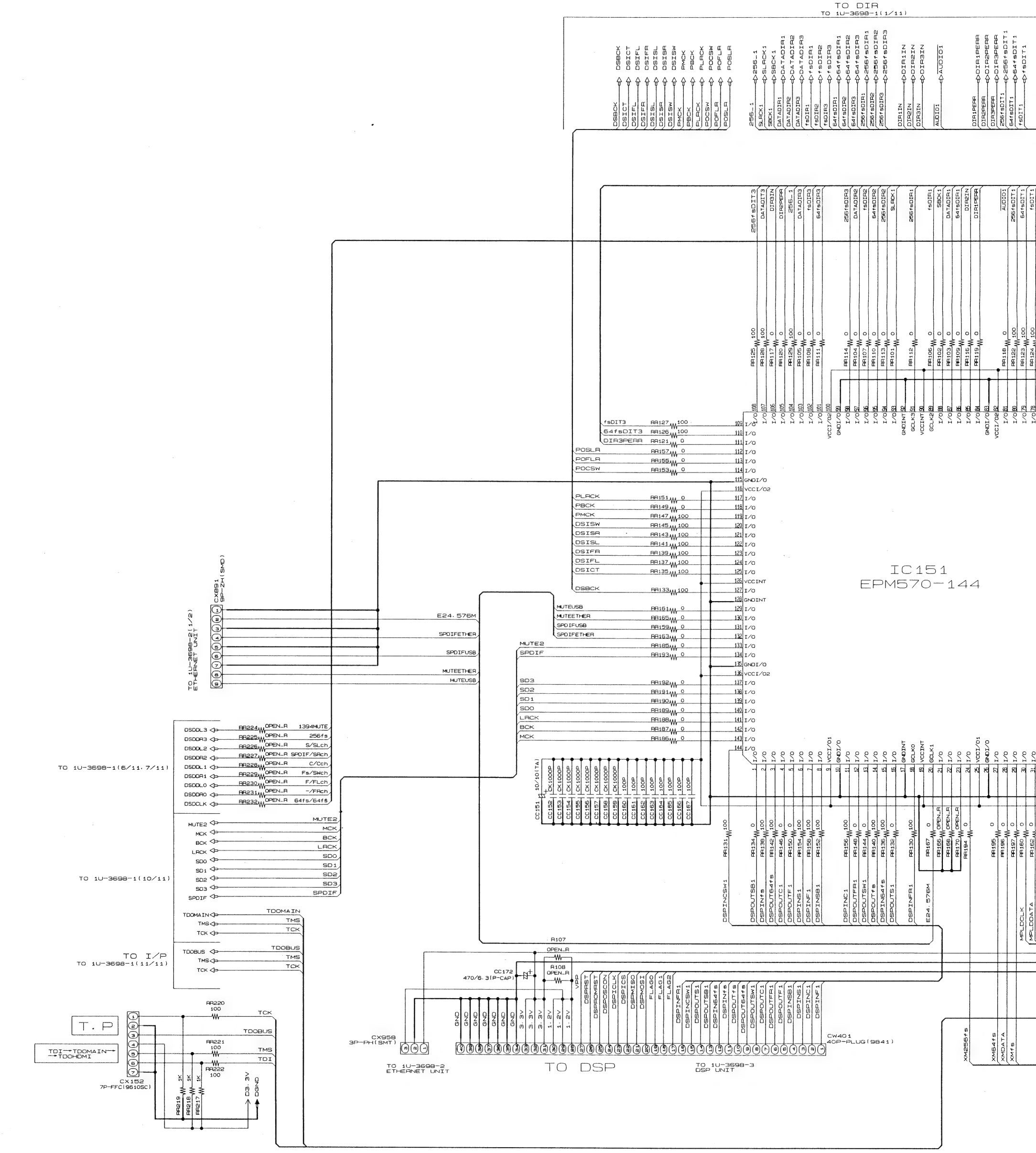


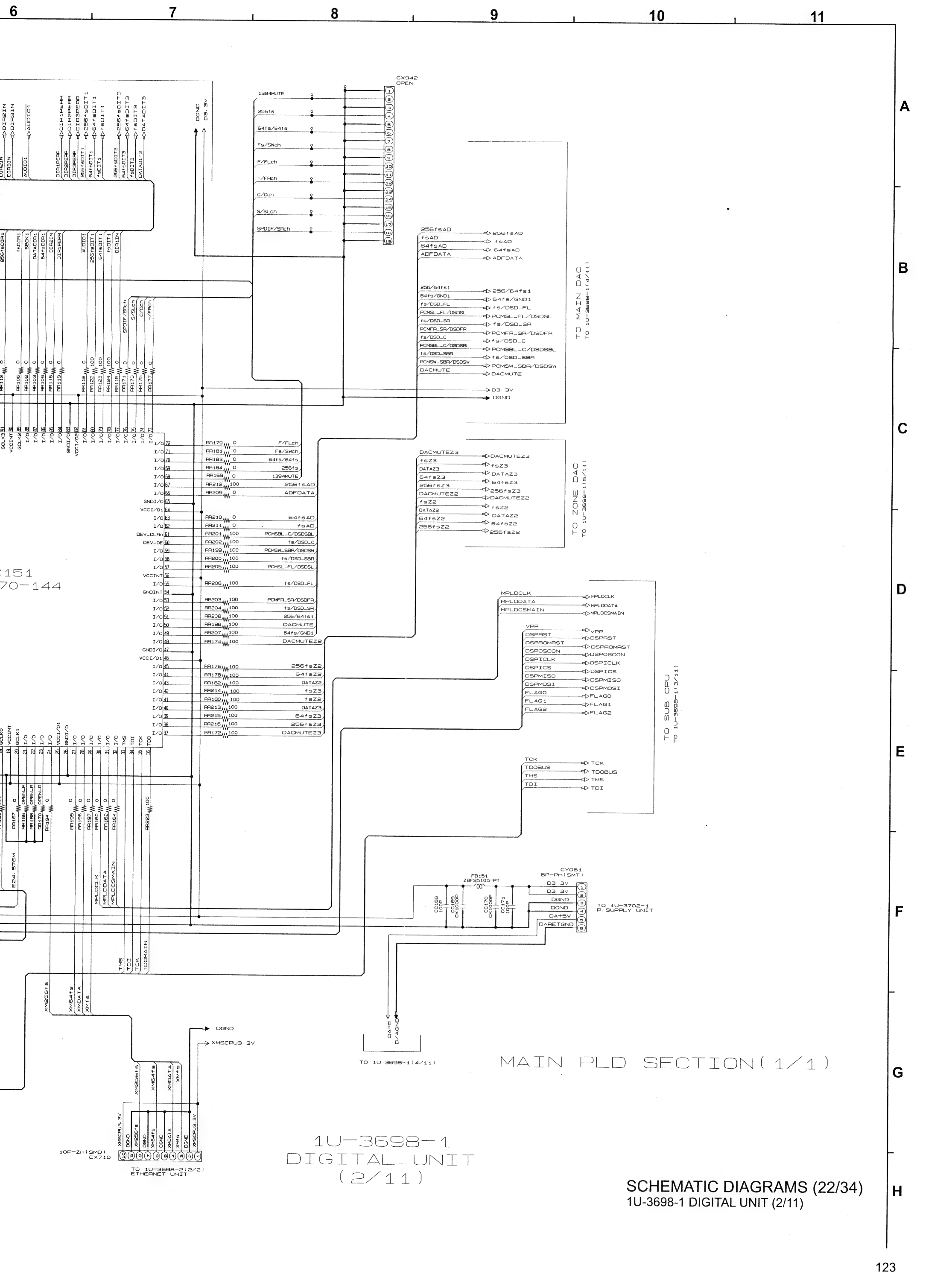
1U-3698-1
DIGITAL_UNIT
(1/11)

DIR SECTION(1/1)

SCHEMATIC DIAGRAMS (21/34)
1U-3698-1 DIGITAL UNIT (1/11)

1 2 3 4 5 6


TO DIR
TO 1U-3698-1(1/11)
IC151
EPM570-144
TO 1U-3698-2(1/2)
ETHERNET UNIT
CX891
9P-ZH(SMD)
TO 1U-3698-1(6/11.7/11)
TO 1U-3698-1(10/11)
TO I/P
TO 1U-3698-1(11/11)
T.P
TDI→TDOMAIN→TDOHDMI
CX152
7P-FFC(9610SC)
CX958
3P-PH(SMT)
TO 1U-3698-2
ETHERNET UNIT
TO DSP
CW401
40P-PLUG(9841)
TO 1U-3698-3
DSP UNIT
E24.576M
SPDIFETHER
SPDIFUSB
MUTEETHER
MUTEUSB
MUTE2
SPDIF
TDOMAIN
TMS
TCK
TDOBUS
TDI
D3.3V
DGND
CC172
470/6.3(P-CAP)
R107
R108
OPEN_R
10P-ZH(SMD)



SCHEMATIC DIAGRAMS (22/34)
1U-3698-1 DIGITAL UNIT (2/11)

SCHEMATIC DIAGRAMS (23/34)

1 2 3 4 5 6

TO PLD
TO 1U-3698-1(2/11)

XMSCPU3.3V
DGND
TCK
TDOBUS
TMS
TDI
MPLDCLK
MPLDDATA
MPLDCSMAIN
VPP
DSPRST
DSPROMRST
DSPOSCON
DSPICLK
DSPICS
DSPMISO
DSPMOSI
FLAG0
FLAG1
FLAG2
SEL4FS
SEL1FS
INIT
DRECINH
DRECC
DRECB
DRECA
DINC
DINB
DINA
DIR3CKST
DIR2CKST
DIR1CKST
INT3
INT2
INT1
DIARST3
DIARST2
DIARST1
DLINK_ON
DIRCE
DIRDIN
DIRDOUT
DIRCLK
ADC-RST
OSR2
ADDVERL
DACRST
DACMS
DACMC
DACMOI
FGAIN
ZDACRST
Z2DACCS
Z3DACCS
VSEL0
VSEL1
VSEL2
VSEL4
P1HPRMV1
P0HPRMV1
P0HPRMV2
P1HPRMV2
WP0
WP1
WP2
WP3
SCDT1
SCDT2
HDMIR_RST1
HDMIR_RST2
HDMI_SENS
HDMIT_RST
EDSCL
EDSDA
SUBCPUTAGON
ACKSIMO
SUBBDOWN
BDOWNSUB
REQSOMI
CLKSIMO
SIMO
SOMI
DIGITALPOWER
ADDVERL

IC251
M30624FCPGP
(SUB)

TO DIR
TO 1U-3698-1(1/11)

TO DAC/ADC
TO 1U-3698-1(4/11)

TO 1U-3698-1(10/11)

6 7 8 9 10 11

A B C D E F G H

TO DIR
1U-3698-1(1/11)

DINA DINB DINC DRECA DRECB DRECC DRECINH
DIR2CKST DIR3CKST
INIT SEL1FS SEL4FS

SUBCPUJTAGON
HDMI_SENS
HDMIT_RST
HDMIR_RST1
HDMIR_RST2
SCDT1
SCDT2
INT1
INT2
WP1
WP0
WP3
WP2
POHPRMV1
P1HPRMV1
POHPRMV2
P1HPRMV2
ADC-RST
OSR2
SDA.
SCL.
ADDOVERL
RSTSUB

S251 OPEN
RE101 0
RE102 0

CC267 CKO. 1
RE222 0 TDOBUS
TCK
RE226 100
RE227 100 TDI
TMS
RE229 100
RE233 100
DRECINH (TDO)
DINC (TCK)
DINB (TDI)
DINA (TMS)
IC803
TC74VHC244FT

CC266 CKO. 1
RE107 100 REQSOMI → REQSOMIm
RE108 100 SOMI → SOMIm
RE109 47K
RE110 47K
IC254
TC74VHCT08FT

CX252
11P-FFC(9610)
SCLK
BUSY
DSPBOOT
CE/AVMUTE
EPM/AUTH
CNVSS
GND
RXD
TXD
3.3V
SUBRESET
RE216 10K
RE219 10K
RE223 10K
RE201 10K
RE202 10K
RE205 10K
RE217 10K
RE220 10K
CC258 CKO. 1
TR253 KRC104S

CC259 CKO. 1
CLKMO
CLKSIMO
RE224 100
ACKSUB
RE231 100
MOSI
RE232 100
SIMO
ACKSIMO
RE225 10K
RE228 10K
RE230 10K
IC252
SN74LV08APW-EL2

CC260 100P
CC261 CKO. 1
*CC262 CKO. 01
CC263 CK1000P

CW101
10P-SOCKET(9120)
CLK
SI
ACK
SUB CPU RST
SUB B. DOWN
REQ
SO
DIGITALPOWER
SCPU5V
MGND
TO 1U-3700-1(2/2) MAIN CPU UNIT

RE215 0 (SCL.)
OPEN.C
OPEN.C

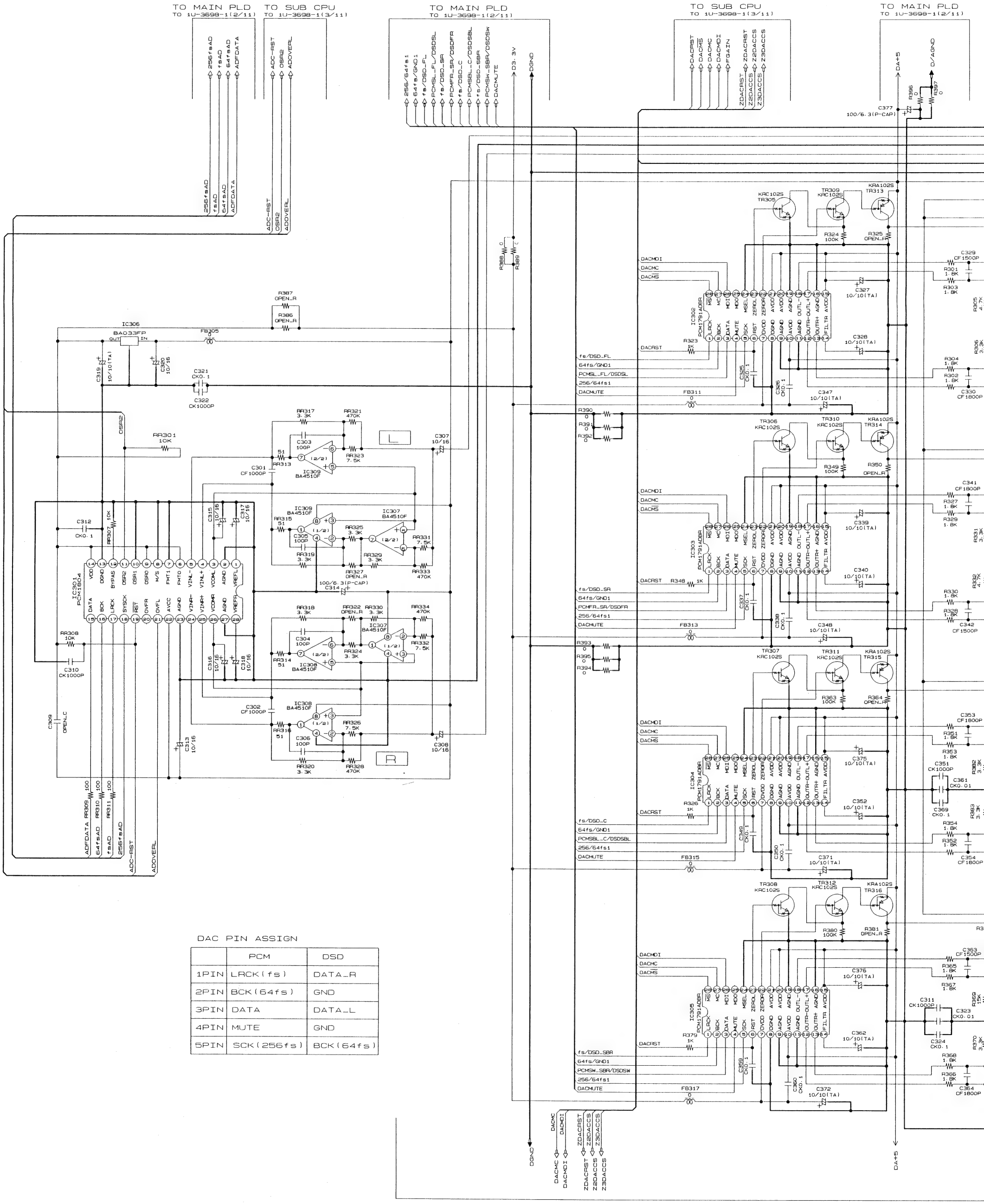
SUB CPU SECTION(1/1)

1U-3698-1
DIGITAL_UNIT
(3/11)

SCHEMATIC DIAGRAMS (23/34)
1U-3698-1 DIGITAL UNIT (3/11)

SCHEMATIC DIAGRAMS (24/34)

1 2 3 4 5 6

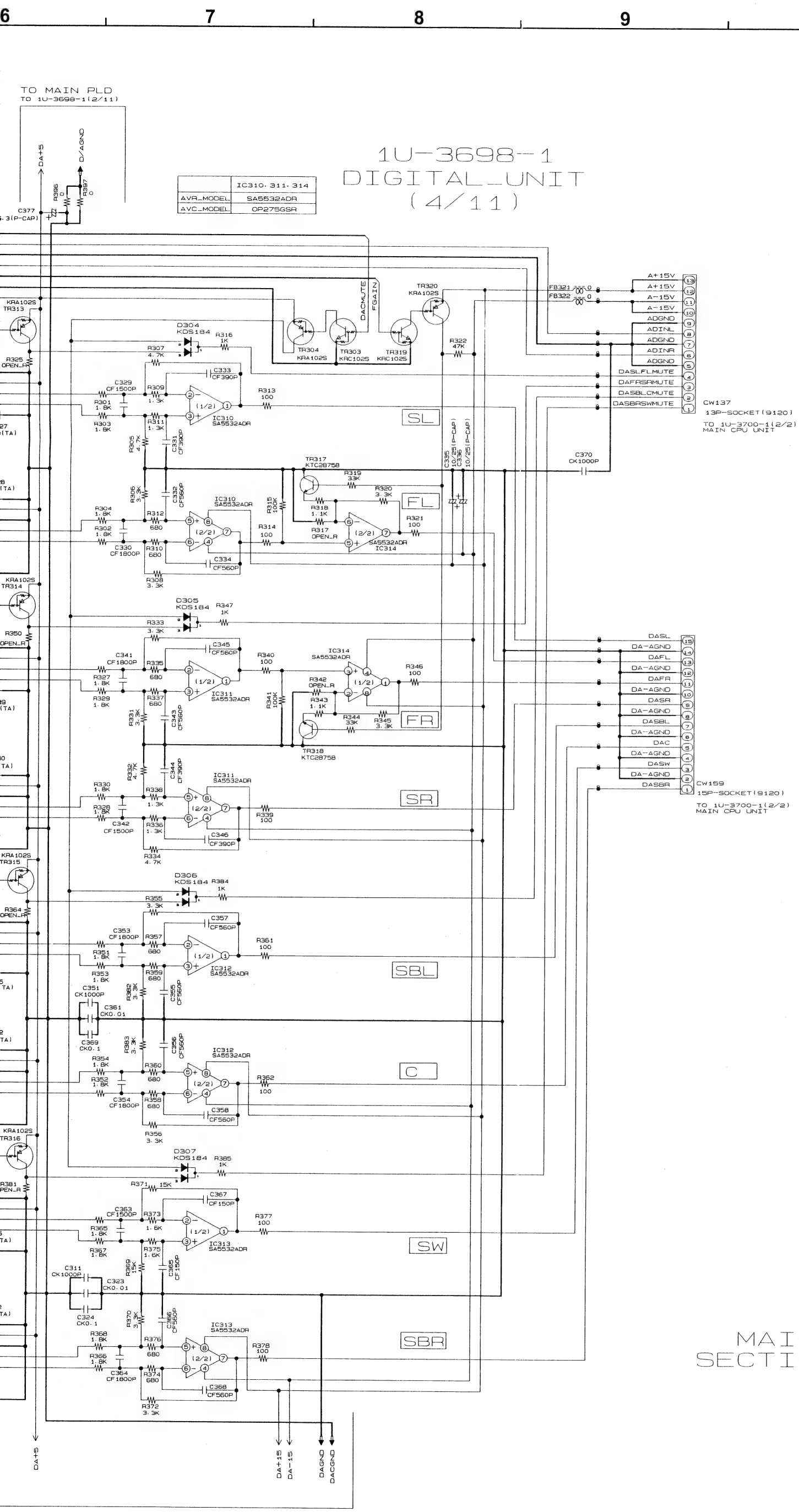


DAC PIN ASSIGN

	PCM	DSD
1PIN	LRCK(fs)	DATA_R
2PIN	BCK(64fs)	GND
3PIN	DATA	DATA_L
4PIN	MUTE	GND
5PIN	SCK(256fs)	BCK(64fs)

1U-3698-1 DIGITAL_UNIT (4/11)

	IC310. 311. 314
AVR_MODEL	SA5532ADR
AVC_MODEL	OP275GSR



MAIN DAC SECTION(1/1)

1 2 3 4 5 6

1U-3698-1
DIGITAL_UNIT
(5/11)

TO MAIN DAC
TO 1U-3698-1(4/11)

DACMC
DACMDI
ZDACRST
Z2DACCS
Z3DACCS

TO MAIN PLD
TO 1U-3698-1(2/11)

256fsZ2
64fsZ2
DATAZ2
fsZ2
DACMUTEZ2
256fsZ3
64fsZ3
DATAZ3
fsZ3
DACMUTEZ3

ZONE-2 DAC

DACMUTEZ2
TR351 KRC102S
TR353 KRA102S
TR357 KRC102S
TR359 KRA102S
D351 KDS184
RR383 1K
RR365 5.1K
RR359 OPEN_R
CC373 470P
RR351 4.7K
CC365 CK3300P
RR366 200
RR377 100
IC353 BA15218F (1/2)
Z2L
RR352 4.7K
RR367 200
RR361 5.1K
CC369 470P
256fsZ2
64fsZ2
DATAZ2
fsZ2
DACMUTEZ2
ZDACRST
Z2DACCS
DACMC
DACMDI
IC351 AK4385ET
CC355 10/10(TA)
RR362 5.1K
CC370 470P
IC353 BA15218F (2/2)
Z2R
CC377 OPEN
CC380 OPEN
RR353 4.7K
RR368 200
RR378 100
RR354 4.7K
CC366 CK3300P
RR369 200
CC374 470P
RR376 5.1K

ZONE-3 DAC

DACMUTEZ3
TR352 KRC102S
TR354 KRA102S
TR355 KRC102S
TR356 KRA102S
D352 KDS184
RR384 1K
RR370 5.1K
RR360 OPEN_R
CC357 470P
RR355 4.7K
CC352 CK3300P
RR371 200
RR379 100
IC354 BA15218F (1/2)
Z3L
RR356 4.7K
RR372 200
RR363 5.1K
CC354 470P
256fsZ3
64fsZ3
DATAZ3
fsZ3
ZDACRST
Z3DACCS
DACMC
DACMDI
IC352 AK4385ET
CC351 10/10(TA)
RR364 5.1K
CC356 470P
IC354 BA15218F (2/2)
Z3R
RR357 4.7K
RR373 200
RR380 100
RR358 4.7K
CC353 CK3300P
RR374 200
CC358 470P
RR375 5.1K

6 7 8 9 10 11

A B C D E F G H

TO MAIN DAC
TO 1U-3698-1(4/11)

DGND
DA+5
DA+15
DA-15
DAGND
DACGND

RR381 0
RR382 0

RR383 1K
RR377 100
Z2L
CC377 OPEN.
CC380 OPEN.
Z2R
RR378 100
RR384 1K
RR379 100
Z3L
Z3R
RR380 100

DAZ3MUTE
DAZ2MUTE
DAZ2L
DAZ2R
DAZ3L
DAZ3R

CW113
11P-SOCKET(9120)

TO 1U-3700-2(2/2)
MAIN CPU UNIT

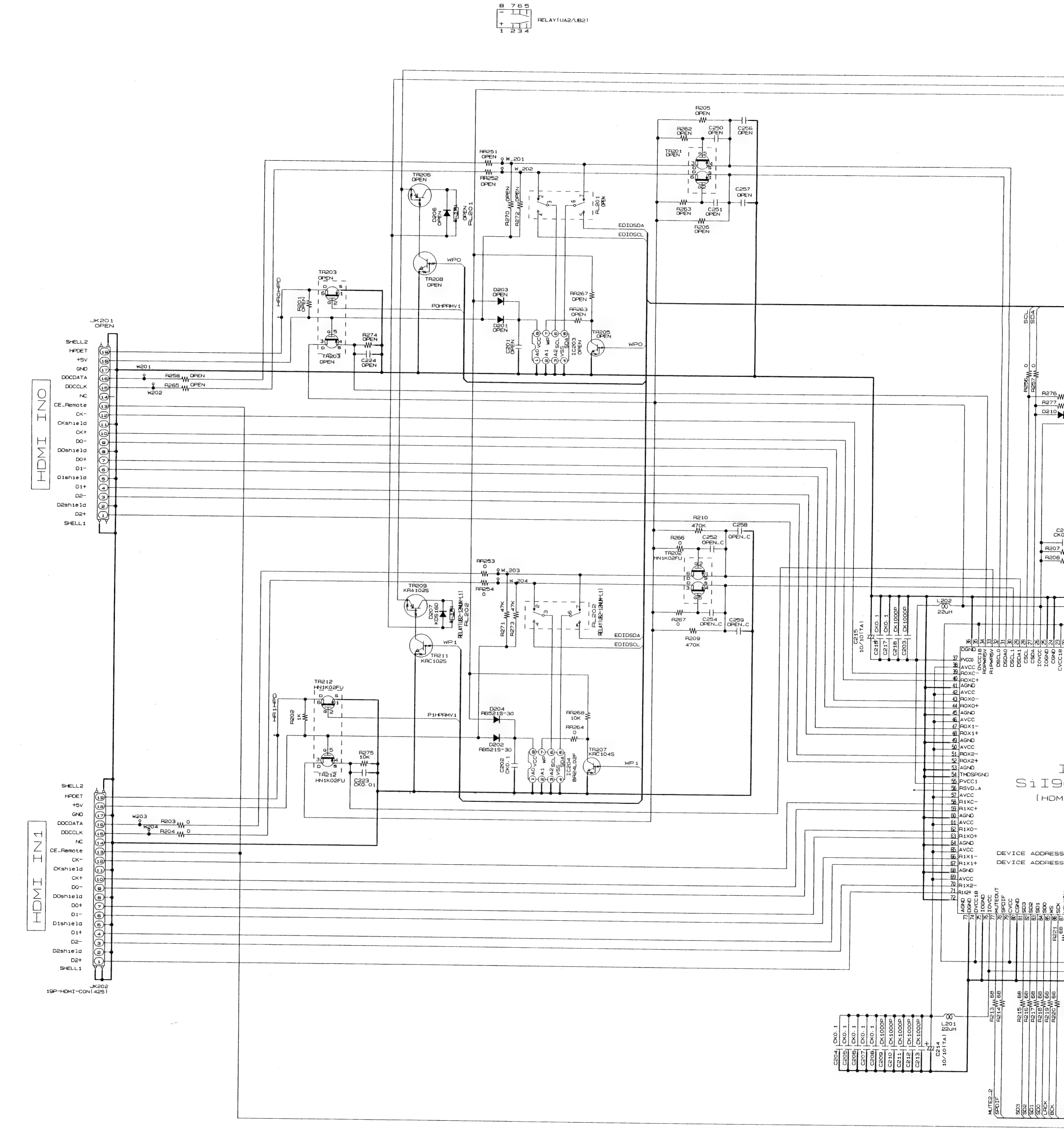
AVR4306_ONLY

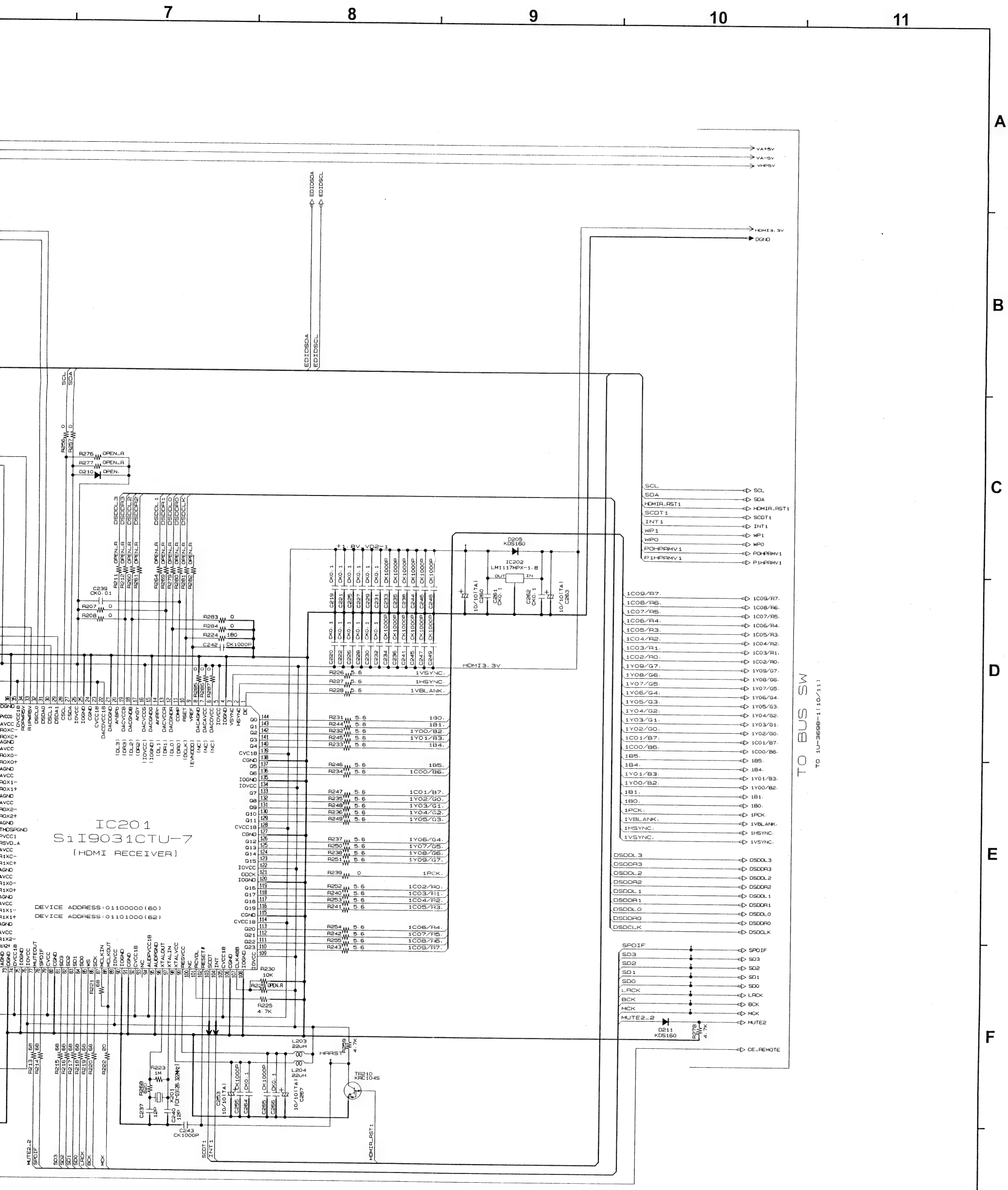
ZONE DAC SECTION(1/1)

1U-3698-1
DIGITAL_UNIT
(5/11)

SCHEMATIC DIAGRAMS (26/34)

1 2 3 4 5 6





HDMI IN SECTION(1/2)

1U-3698-1
DIGITAL_UNIT
(6/11)

SCHEMATIC DIAGRAMS (26/34)
1U-3698-1 DIGITAL UNIT (6/11)

1 2 3 4 5 6

RELAY(UA2/UB2)

HDMI IN2

HDMI IN3

JK401 19P-HDMI-CON(425)

JK402 19P-HDMI-CON(425)

SHELL2, HPDET, +5V, GND, DDCDATA, DDCCLK, NC, CE_Remote, CK-, CKshield, CK+, D0-, D0shield, D0+, D1-, D1shield, D1+, D2-, D2shield, D2+, SHELL1

W401, W402, W403, W404

R458 0, R465 0, R454 0, R469 0

HR2HPD, HR3HPD

TR403 HN1K02FU, TR413 HN1K02FU

R401 1K, R402 1K

R474 10K, R475 10K

C426 CK0.01, C425 CK0.01

TR406 KRA102S, TR409 KRA102S

TR408 KRC102S, TR411 KRC102S

WP2, WP3

D405 KDS160, D407 KDS160

RL401 RELAY(UB2-12NJH-L1), RL402 RELAY(UB2-12NJH-L1)

RR401 0, RR402 0, RR403 0, RR404 0

W_401, W_402, W_403, W_404

R470 47K, R472 47K, R471 47K, R473 47K

P0HPRMV2, P1HPRMV2

D403 RB521S-30, D401 RB521S-30, D404 RB521S-30, D402 RB521S-30

C401 CK0.1, C402 CK0.1

IC403 BR24L02F, IC404 BR24L02F

RR413 0, RR414 0

RR417 10K, RR418 10K

TR405 KRC104S, TR407 KRC104S

EDIDSDA, EDIDSCL

R405 470K, R462 0, C452 OPEN_C, C458 OPEN_C, TR401 HN1K02FU, C459 OPEN_C, R463 0, C453 OPEN_C, R406 470K

R410 470K, R466 0, C454 OPEN_C, C460 OPEN_C, TR402 HN1K02FU, R467 0, C456 OPEN_C, C461 OPEN_C, R409 470K

C416 10/10(TA), C417 CK0.1, C418 CK0.1, C420 CK1000P, C403 CK1000P

L402 22UH

DGND, PVCC0, AVCC, R0XC-, R0XC+, AGND, AVCC, R0X0-, R0X0+, AGND, AVCC, R0X1-, R0X1+, AGND, AVCC, R0X2-, R0X2+, AGND, TMDSPGND, PVCC1, RSVD_A, AVCC, R1XC-, R1XC+, AGND, AVCC, R1X0-, R1X0+, AGND, AVCC, R1X1-, R1X1+, AGND, AVCC, R1X2-, R1X2+, AGND, DGND, DVCC18, IOGND, IOVCC, MUTEOUT, SPDIF, CVCC, CGND, SD3, SD2

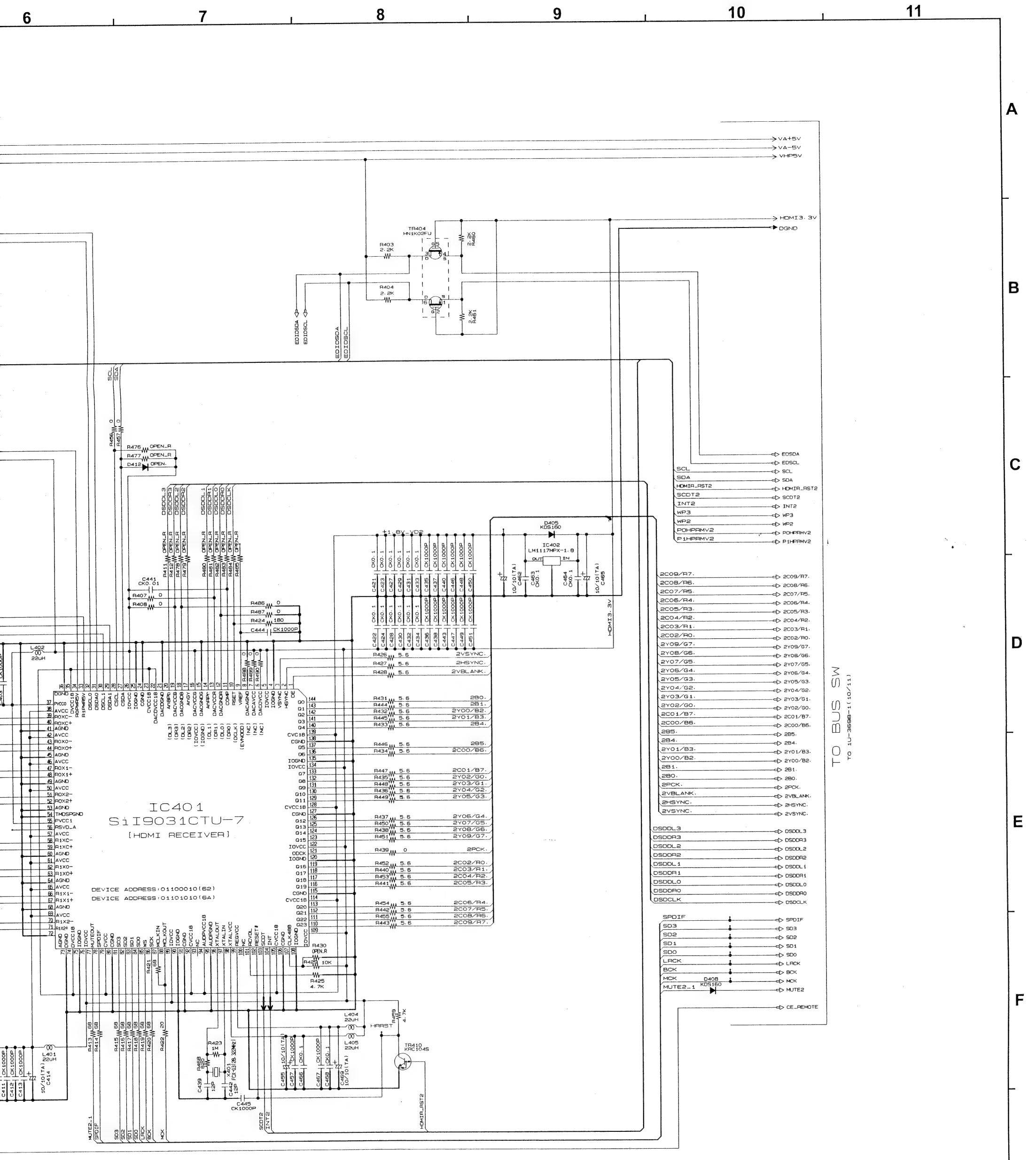
C404 CK0.1, C405 CK0.1, C406 CK0.1, C407 CK0.1, C408 CK1000P, C409 CK1000P, C410 CK1000P, C411 CK1000P, C412 CK1000P, C413 CK1000P, C414 10/10(TA), L401 22UH

R413 68, R414 68, R415 68, R416 68

SCL, SDA, R456 0, R457 0

MUTE2_1, SPDIF, SD3, SD2

DEVICE A, DEVICE A

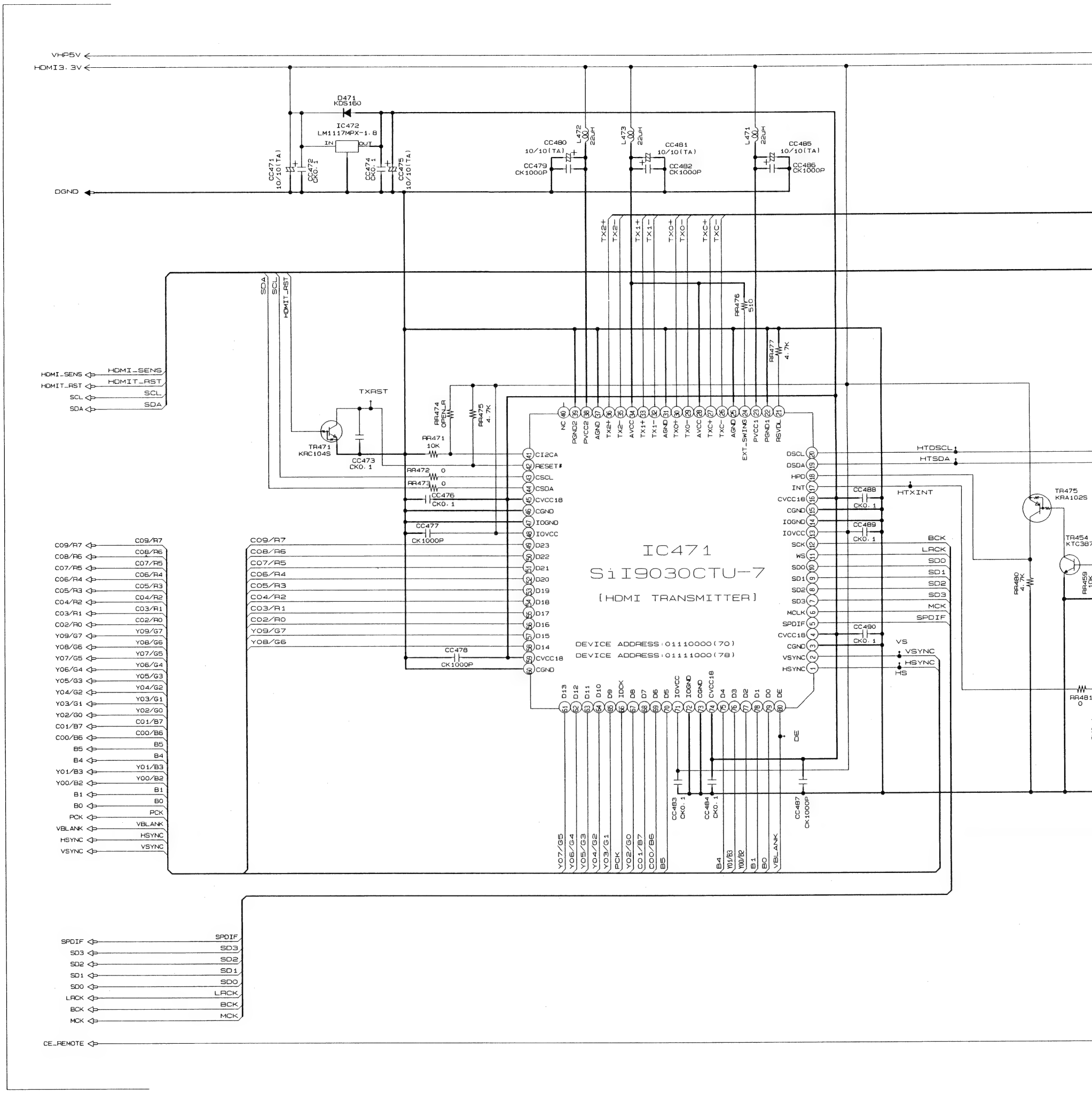


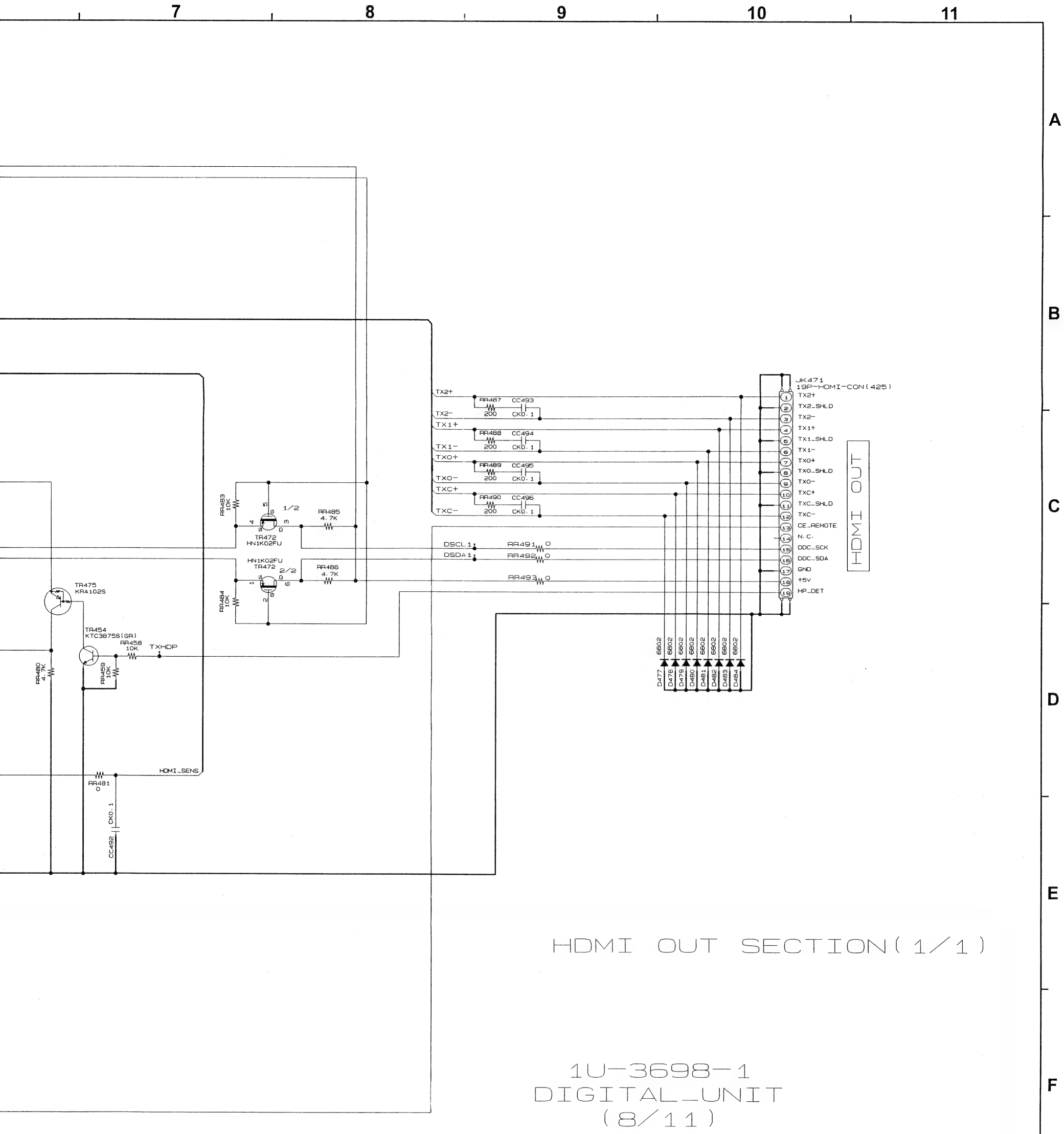
HDMI IN SECTION(2/2)

1U-3698-1
DIGITAL_UNIT
(7/11)

SCHEMATIC DIAGRAMS (28/34)

1 2 3 4 5 6



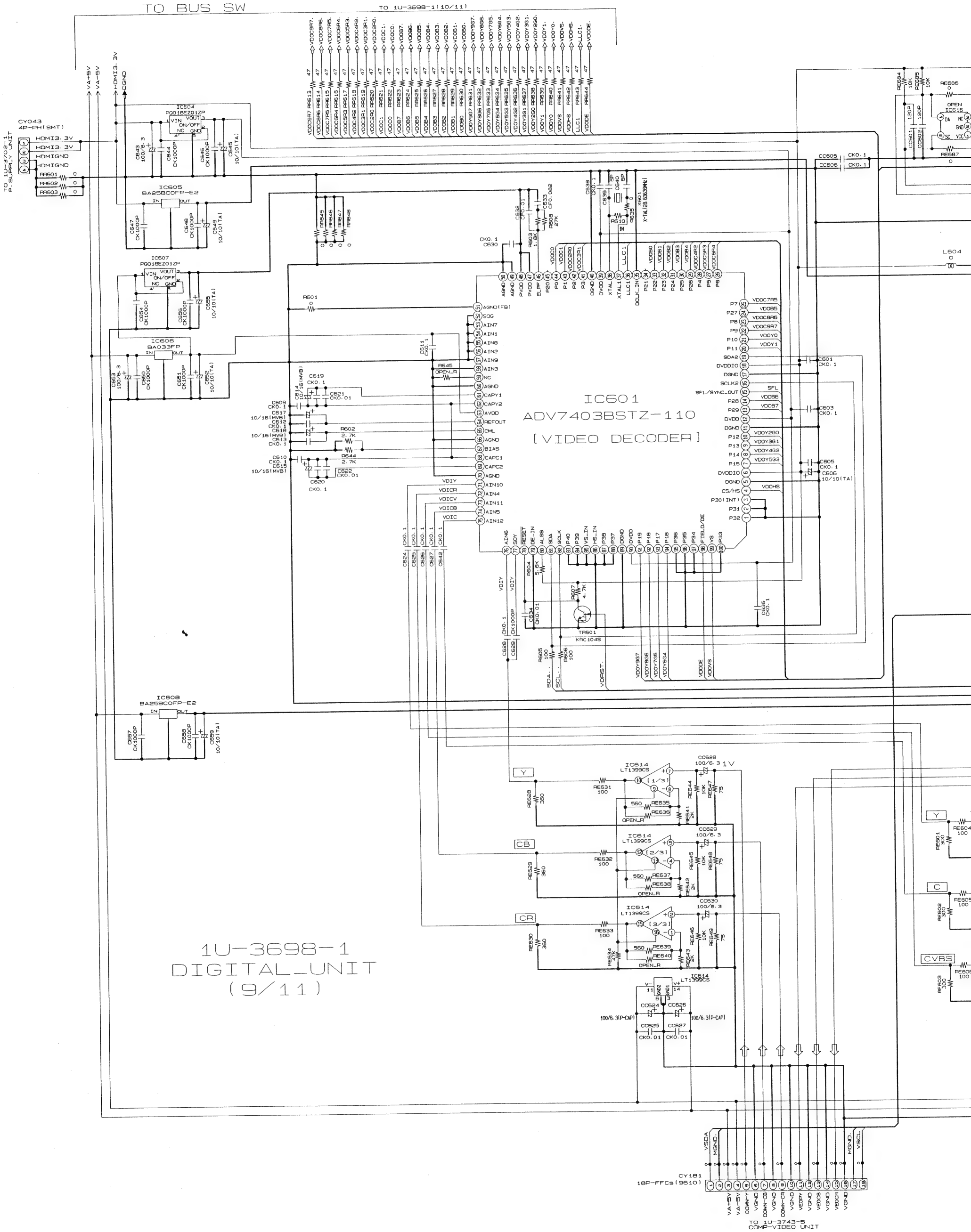


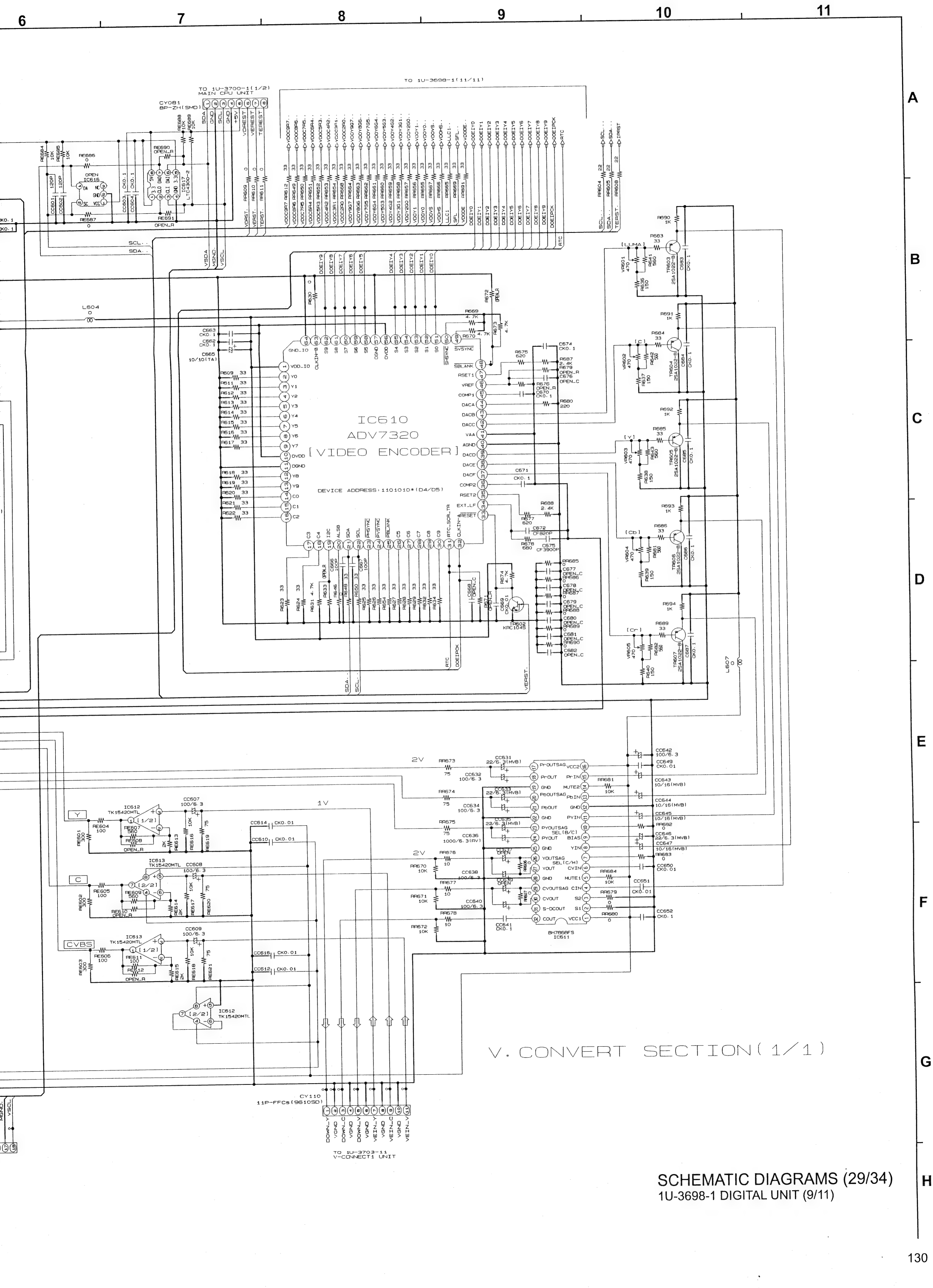
HDMI OUT SECTION(1/1)

1U-3698-1
DIGITAL_UNIT
(8/11)

SCHEMATIC DIAGRAMS (29/34)

1 2 3 4 5 6





SCHEMATIC DIAGRAMS (29/34)

1U-3698-1 DIGITAL UNIT (9/11)

SCHEMATIC DIAGRAMS (30/34)

1 2 3 4 5 6

TO HDMI IN 1&2
TO 1U-3698-1(6/11.7/11)

TO HDMI IN1
TO 1U-3698-1(6/11)

TO HDMI IN2
TO 1U-3698-1(7/11)

TO MAINPLD
TO 1U-3698-1(2/11)

TO I
TO 1U-3698-

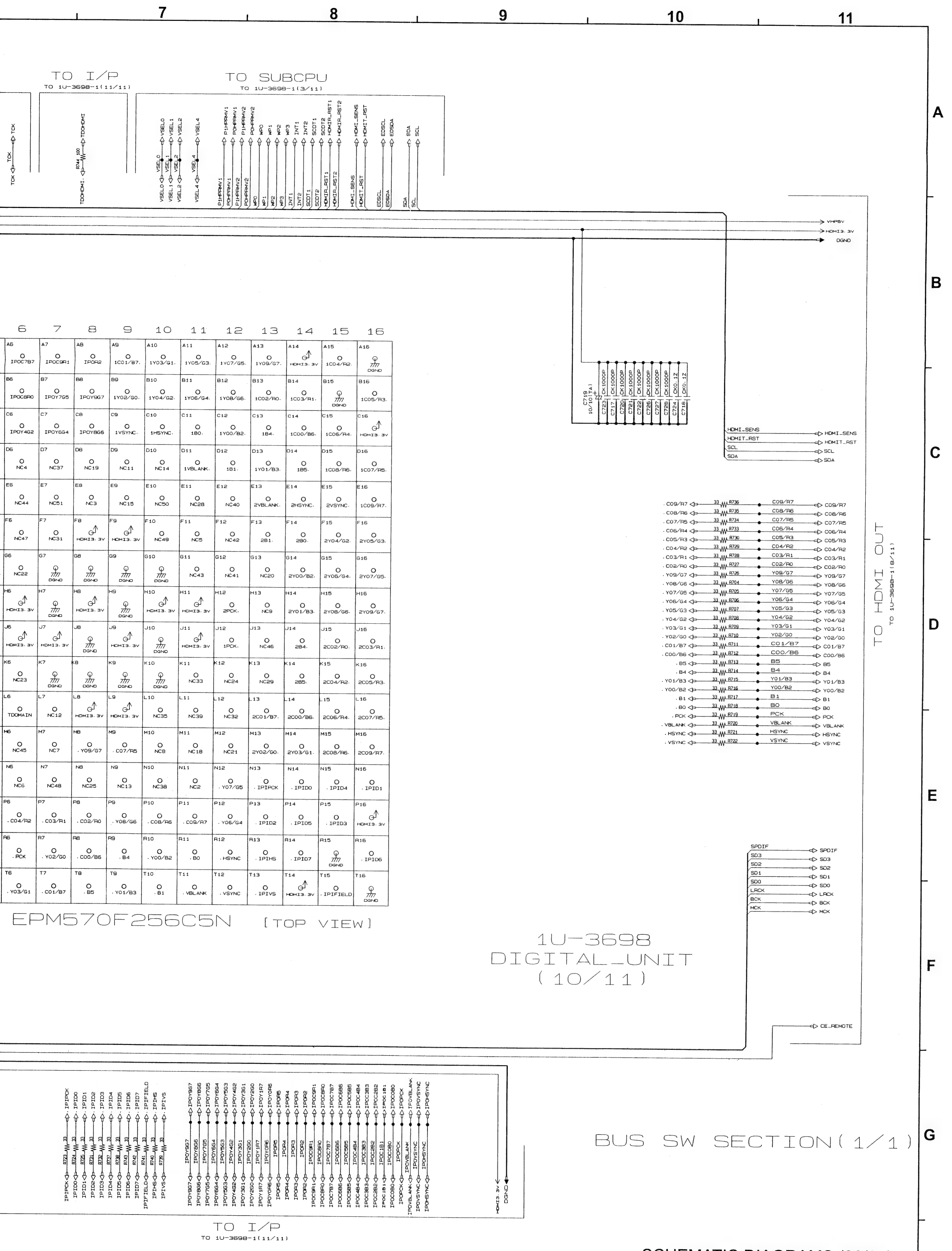
VA+5V
VA-5V
R701 0
R702 0
R703 0
VHP5V
HDMI3.3V
DGND
EDSDA
EDSCL
SCL
SDA
HDMIR_RST1
SCDT1
INT1
WP1
WP0
POHPRMV1
P1HPRMV1
HDMIR_RST2
SCDT2
INT2
WP3
WP2
POHPRMV2
P1HPRMV2
1C09/R7. 1C08/R6. 1C07/R5. 1C06/R4. 1C05/R3. 1C04/R2. 1C03/R1. 1C02/R0.
1Y09/G7. 1Y08/G6. 1Y07/G5. 1Y06/G4. 1Y05/G3. 1Y04/G2. 1Y03/G1. 1Y02/G0.
1C01/B7. 1C00/B6. 1B5. 1B4. 1Y01/B3. 1Y00/B2. 1B1. 1B0.
1PCK. 1VBLANK. 1HSYNC. 1VSYNC.
2C09/R7. 2C08/R6. 2C07/R5. 2C06/R4. 2C05/R3. 2C04/R2. 2C03/R1. 2C02/R0.
2Y09/G7. 2Y08/G6. 2Y07/G5. 2Y06/G4. 2Y05/G3. 2Y04/G2. 2Y03/G1. 2Y02/G0.
2C01/B7. 2C00/B6. 2B5. 2B4. 2Y01/B3. 2Y00/B2. 2B1. 2B0.
2PCK. 2VBLANK. 2HSYNC. 2VSYNC.
MUTE2 MCK BCK LRCK SDO SD1 SD2 SD3 SPDIF
TDOMAIN TMS TCK
TDOHDMI
R744 100
SPDIF SD3 SD2 SD1 SD0 LRCK BCK MCK MUTE2
CE_REMOTE
VDOC9R7. VDOC8R6. VDOC7R5. VDOC6R4. VDOC5R3. VDOC4R2. VDOC3R1. VDOC2R0. VDOC1. VDOC0. VDOB7. VDOB6. VDOB5. VDOB4. VDOB3. VDOB2. VDOB1. VDOB0.
VDOY9G7. VDOY8G6. VDOY7G5. VDOY6G4. VDOY5G3. VDOY4G2. VDOY3G1. VDOY2G0. VDOY1. VDOY0. VDOVS. VDOHS. LLC1. VDODE.
SCL... SDA... IPRST
IPIPCK IPID0 IPID1 IPID2
R723 33 R724 33 R725 33 R731 33

	1	2	3	4	5	6	7	8
A	A1 DGND	A2 IPOC0B0	A3 HDMI3.3V	A4 IPOC3B3	A5 IPOC5B5	A6 IPOC7B7	A7 IPOC9R1	A8 IPOR
B	B1 IPOVSYNC	B2 DGND	B3 IPOC2B2	B4 IPOC4B4	B5 IPOC6B6	B6 IPOC8R0	B7 IPOY7G5	B8 IPOY9
C	C1 HDMI3.3V	C2 IPOVBLANK	C3 IPOC1B1	C4 IPOYOR6	C5 IPOY2G0	C6 IPOY4G2	C7 IPOY6G4	C8 IPOYB
D	D1 IPOHSYNC	D2 IPOR3	D3 IPOR4	D4 IPOY1R7	D5 IPOY5G3	D6 NC4	D7 NC37	D8 NC19
E	E1 VSEL1	E2 VSEL2	E3 IPOR5	E4 IPOY3G1	E5 NC52	E6 NC44	E7 NC51	E8 NC3
F	F1 VSEL4	F2 VSEL0	F3 VDOVS.	F4 NC36	F5 NC27	F6 NC47	F7 NC31	F8 HDMI3.
G	G1 VDOB2.	G2 VDOB1.	G3 VDODE.	G4 NC30	G5 NC26	G6 NC22	G7 DGND	G8 DGND
H	H1 VDOB4.	H2 VDOB3.	H3 VDOY6G4.	H4 NC17	H5 LLC1.	H6 HDMI3.3V	H7 DGND	H8 HDMI3.
J	J1 VDOC5R3.	J2 VDOC4R2.	J3 VDOY7G5.	J4 NC34	J5 IPOPCK	J6 HDMI3.3V	J7 HDMI3.3V	J8 DGND
K	K1 VDOC7R5.	K2 VDOC6R4.	K3 VDOYBG6.	K4 NC10	K5 NC16	K6 NC23	K7 DGND	K8 DGND
L	L1 VDOC8R6.	L2 VDOB5.	L3 VDOC1.	L4 VDOY9G7.	L5 NC1	L6 TDOMAIN	L7 NC12	L8 HDMI3.
M	M1 VDOY0.	M2 VDOC9R7.	M3 VDOC2R0.	M4 VDOC0.	M5 TDOHDMI.	M6 NC45	M7 NC7	M8 .Y09/G
N	N1 VDOB0.	N2 VDOY1.	N3 VDOC3R1.	N4 TMS	N5 .C05/R3	N6 NC6	N7 NC48	N8 NC25
P	P1 HDMI3.3V	P2 VDOB6.	P3 TCK	P4 VDOY2G0.	P5 .C06/R4	P6 .C04/R2	P7 .C03/R1	P8 .C02/R
R	R1 VDOB7.	R2 DGND	R3 VDOY4G2.	R4 VDOY5G3.	R5 .Y04/G2	R6 .PCK	R7 .Y02/G0	R8 .C00/B
T	T1 DGND	T2 VDOY3G1.	T3 HDMI3.3V	T4 VDOHS.	T5 .Y05/G3	T6 .Y03/G1	T7 .C01/B7	T8 .B5

IC701 EPM57

TO HDMI IN 1&2
TO 1U-3698-1(6/11.7/11)

TO CONVERT
TO 1U-3698-1(9/11)



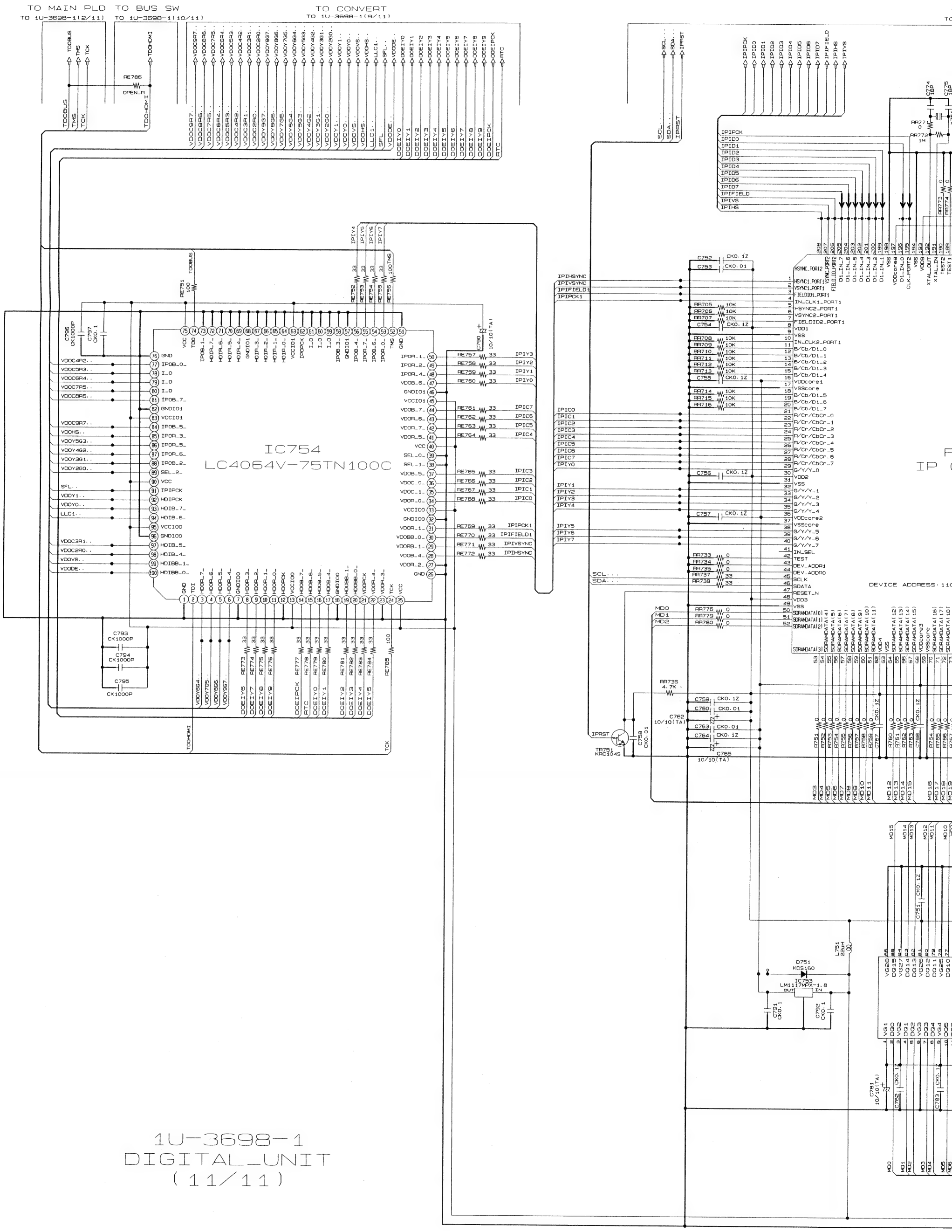
	6	7	8	9	10	11	12	13	14	15	16
A	A6 IPOC7B7	A7 IPOC9R1	A8 IPOR2	A9 1C01/B7.	A10 1Y03/G1.	A11 1Y05/G3.	A12 1Y07/G5.	A13 1Y09/G7.	A14 HDMI3.3V	A15 1C04/R2.	A16 DGND
B	B6 IPOC8R0	B7 IPOY7G5	B8 IPOY9G7	B9 1Y02/G0.	B10 1Y04/G2.	B11 1Y06/G4.	B12 1Y08/G6.	B13 1C02/R0.	B14 1C03/R1.	B15 DGND	B16 1C05/R3.
C	C6 IPOY4G2	C7 IPOY6G4	C8 IPOY8G6	C9 1VSYNC.	C10 1HSYNC.	C11 1B0.	C12 1Y00/B2.	C13 1B4.	C14 1C00/B6.	C15 1C06/R4.	C16 HDMI3.3V
D	D6 NC4	D7 NC37	D8 NC19	D9 NC11	D10 NC14	D11 1VBLANK.	D12 1B1.	D13 1Y01/B3.	D14 1B5.	D15 1C08/R6.	D16 1C07/R5.
E	E6 NC44	E7 NC51	E8 NC3	E9 NC15	E10 NC50	E11 NC28	E12 NC40	E13 2VBLANK.	E14 2HSYNC.	E15 2VSYNC.	E16 1C09/R7.
F	F6 NC47	F7 NC31	F8 HDMI3.3V	F9 HDMI3.3V	F10 NC49	F11 NC5	F12 NC42	F13 2B1.	F14 2B0.	F15 2Y04/G2.	F16 2Y05/G3.
G	G6 NC22	G7 DGND	G8 DGND	G9 DGND	G10 DGND	G11 NC43	G12 NC41	G13 NC20	G14 2Y00/B2.	G15 2Y06/G4.	G16 2Y07/G5.
H	H6 HDMI3.3V	H7 DGND	H8 HDMI3.3V	H9 DGND	H10 HDMI3.3V	H11 HDMI3.3V	H12 2PCK.	H13 NC9	H14 2Y01/B3.	H15 2Y08/G6.	H16 2Y09/G7.
J	J6 HDMI3.3V	J7 HDMI3.3V	J8 DGND	J9 HDMI3.3V	J10 DGND	J11 HDMI3.3V	J12 1PCK.	J13 NC46	J14 2B4.	J15 2C02/R0.	J16 2C03/R1.
K	K6 NC23	K7 DGND	K8 DGND	K9 DGND	K10 DGND	K11 NC33	K12 NC24	K13 NC29	K14 2B5.	K15 2C04/R2.	K16 2C05/R3.
L	L6 TDOMAIN	L7 NC12	L8 HDMI3.3V	L9 HDMI3.3V	L10 NC35	L11 NC39	L12 NC32	L13 2C01/B7.	L14 2C00/B6.	L15 2C06/R4.	L16 2C07/R5.
M	M6 NC45	M7 NC7	M8 . Y09/G7	M9 . C07/R5	M10 NC8	M11 NC18	M12 NC21	M13 2Y02/G0.	M14 2Y03/G1.	M15 2C08/R6.	M16 2C09/R7.
N	N6 NC5	N7 NC48	N8 NC25	N9 NC13	N10 NC38	N11 NC2	N12 . Y07/G5	N13 . IPIPCK	N14 . IPID0	N15 . IPID4	N16 . IPID1
P	P6 . C04/R2	P7 . C03/R1	P8 . C02/R0	P9 . Y08/G6	P10 . C08/R6	P11 . C09/R7	P12 . Y06/G4	P13 . IPID2	P14 . IPID5	P15 . IPID3	P16 HDMI3.3V
R	R6 . PCK	R7 . Y02/G0	R8 . C00/B6	R9 . B4	R10 . Y00/B2	R11 . B0	R12 . HSYNC	R13 . IPIHS	R14 . IPID7	R15 DGND	R16 . IPID6
T	T6 . Y03/G1	T7 . C01/B7	T8 . B5	T9 . Y01/B3	T10 . B1	T11 . VBLANK	T12 . VSYNC	T13 . IPIVS	T14 HDMI3.3V	T15 . IPIFIELD	T16 DGND

EPM570F256C5N [TOP VIEW]

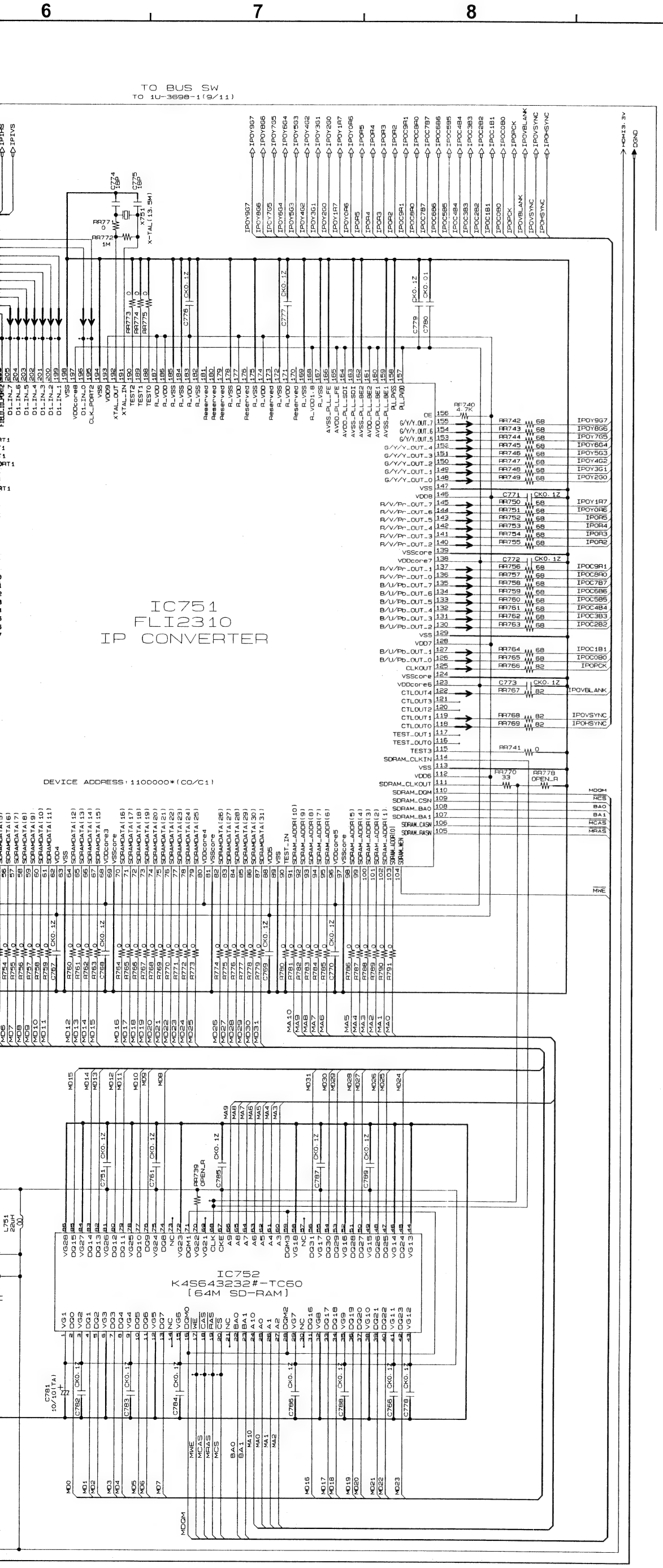
1U-3698
DIGITAL_UNIT
(10/11)

BUS SW SECTION(1/1)

SCHEMATIC DIAGRAMS (30/34)
1U-3698-1 DIGITAL UNIT (10/11)



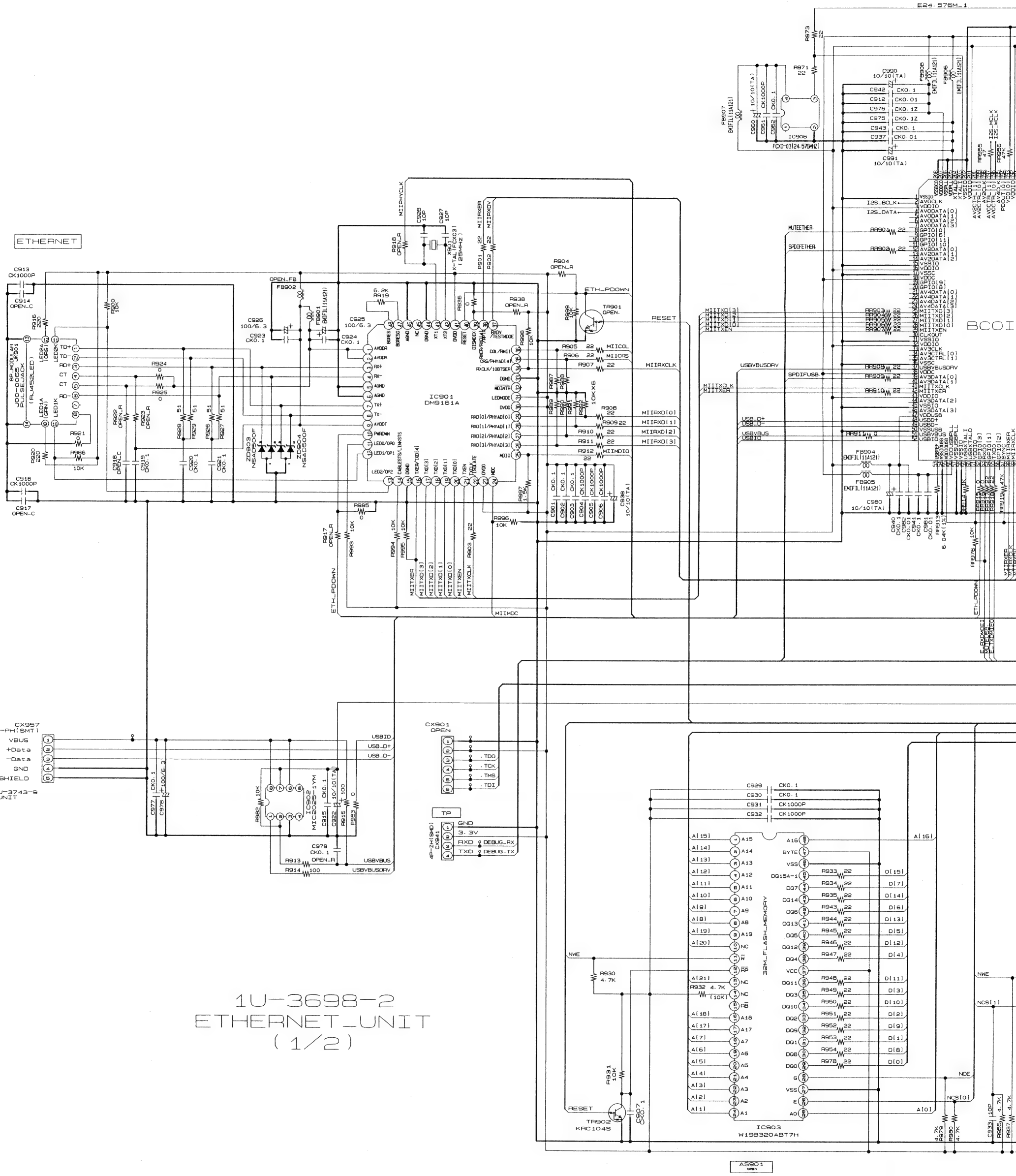
1U-3698-1
DIGITAL_UNIT
(11/11)



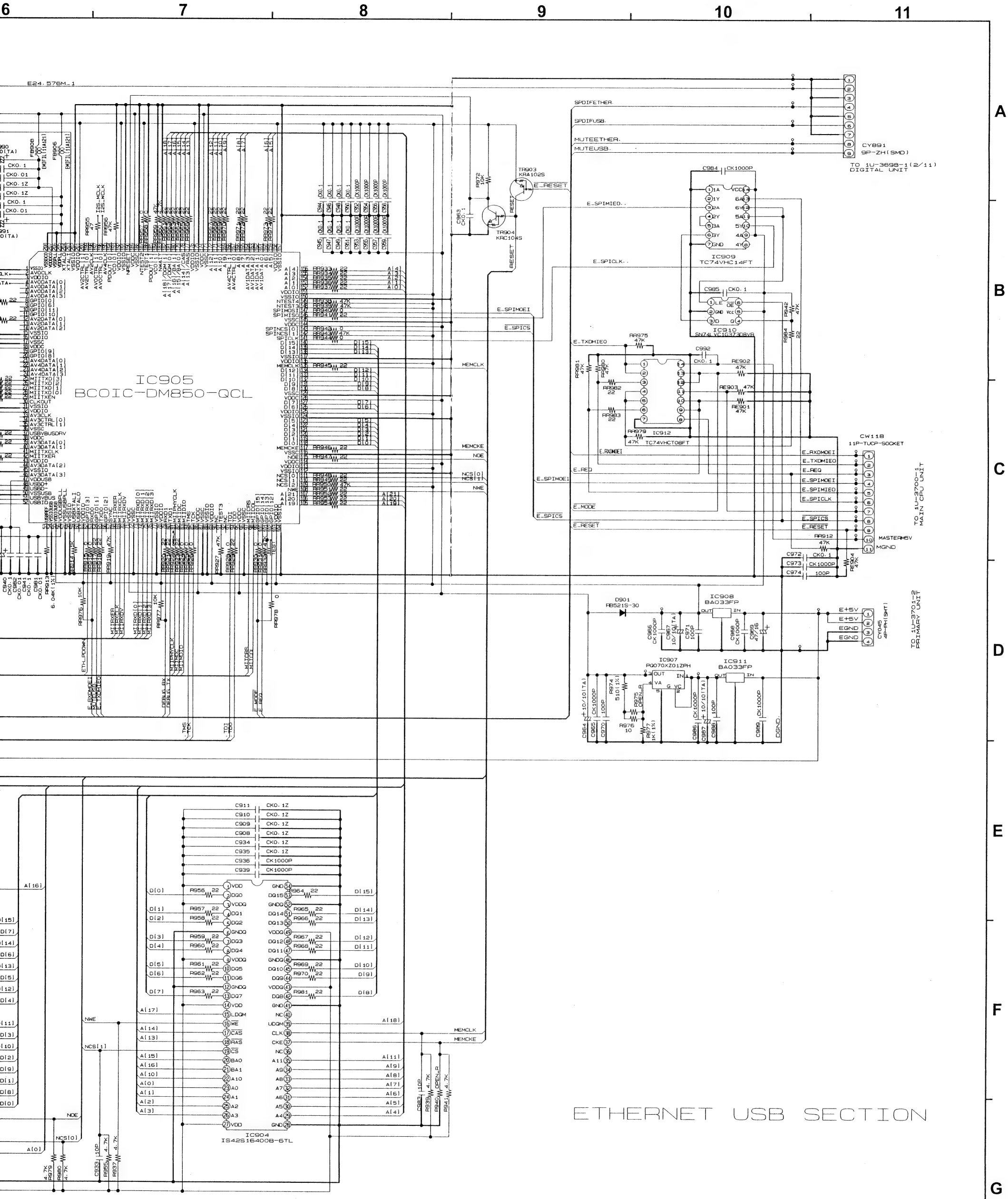
I/P CONVERT SECTION

SCHEMATIC DIAGRAMS (31/34)
1U-3698-1 DIGITAL UNIT (11/11)

1 2 3 4 5 6



1U-3698-2
ETHERNET_UNIT
(1/2)

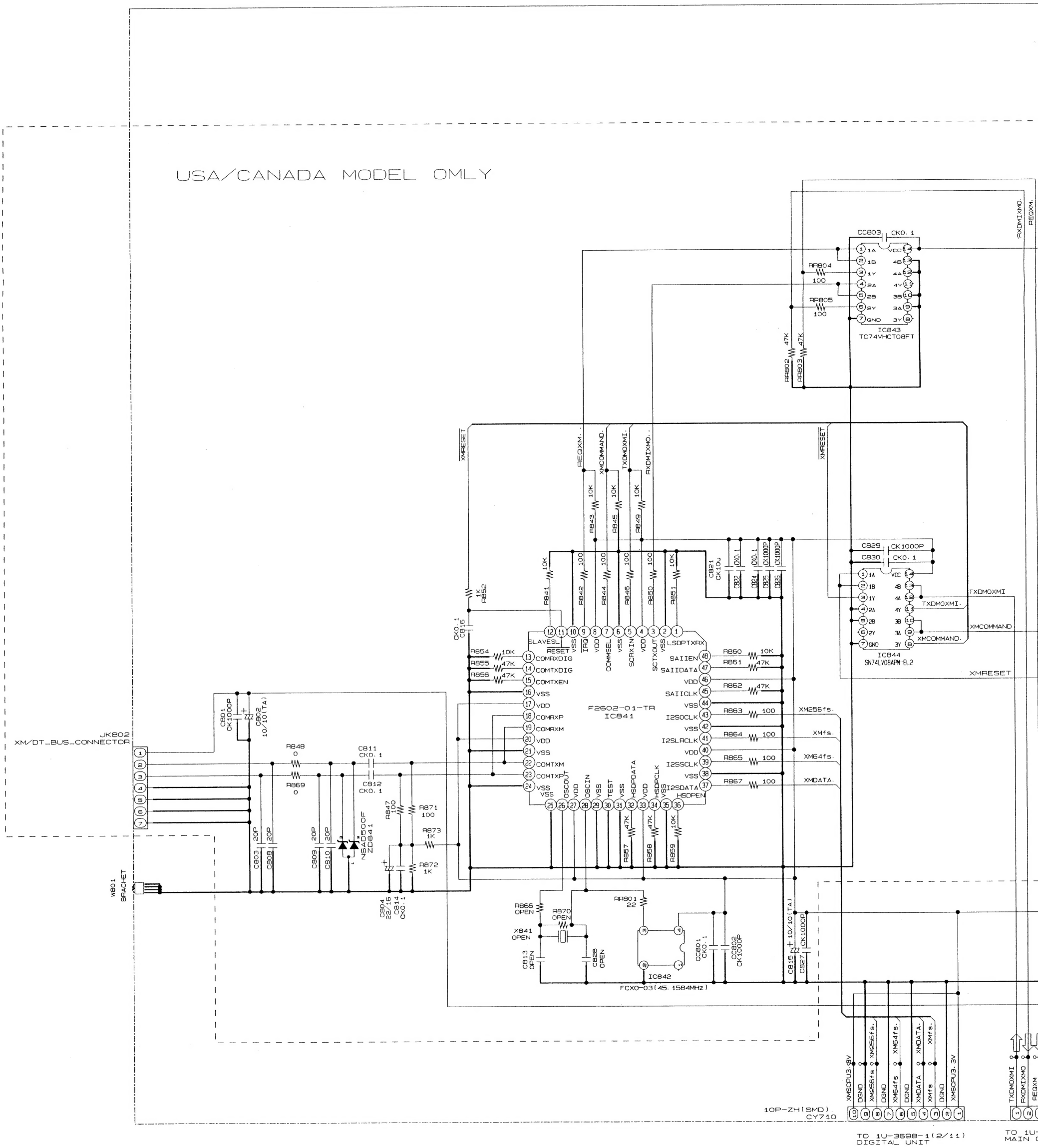


SCHEMATIC DIAGRAMS (32/34)

1U-3698-2 ETHERNET UNIT (1/2)

1 2 3 4 5 6

USA/CANADA MODEL OMLY



6 7 8 9 10 11

A B C D E F G H

TO 1U-3698-1(2/11)
DIGITAL UNIT

CX888
3P-PHs

IC850
PQ012FZ01ZP

C850 330/6.3(P-CAP)
C851 10/10(TA)
C852 100P
C853 100P
RR850 10K
C854 330/6.3(P-CAP)
C855 10/10(TA)
C856 100P
RR851 4.7K

RXDMIXMO.
REQXM.

K1000P
CKO. 1
TXDMOXMI
TXDMOXMI.
XMCOMMAND
XMCOMMAND.
XMRESET

1U-3698-2
ETHERNET_UNIT
(2/2)

CY032
3P-ZH(SMD)
XMSCPU3.3V
XM5.3V
XMGND
TO 1U-3702-1
P.SUPPLY UNIT

C818 CK1000P
C834 CKO.1
C835 CKO.1

XMDATA-
XMDATA
XMfs
DGND
XMSCPU3.3V
TXDMOXMI
RXDMIXMO
REQXM
XMCOMMAND
SCPU5V
XMRESET
MGND

CY777
7P-ZH(SMD)

TO 1U-3698-1(2/11)
UNIT

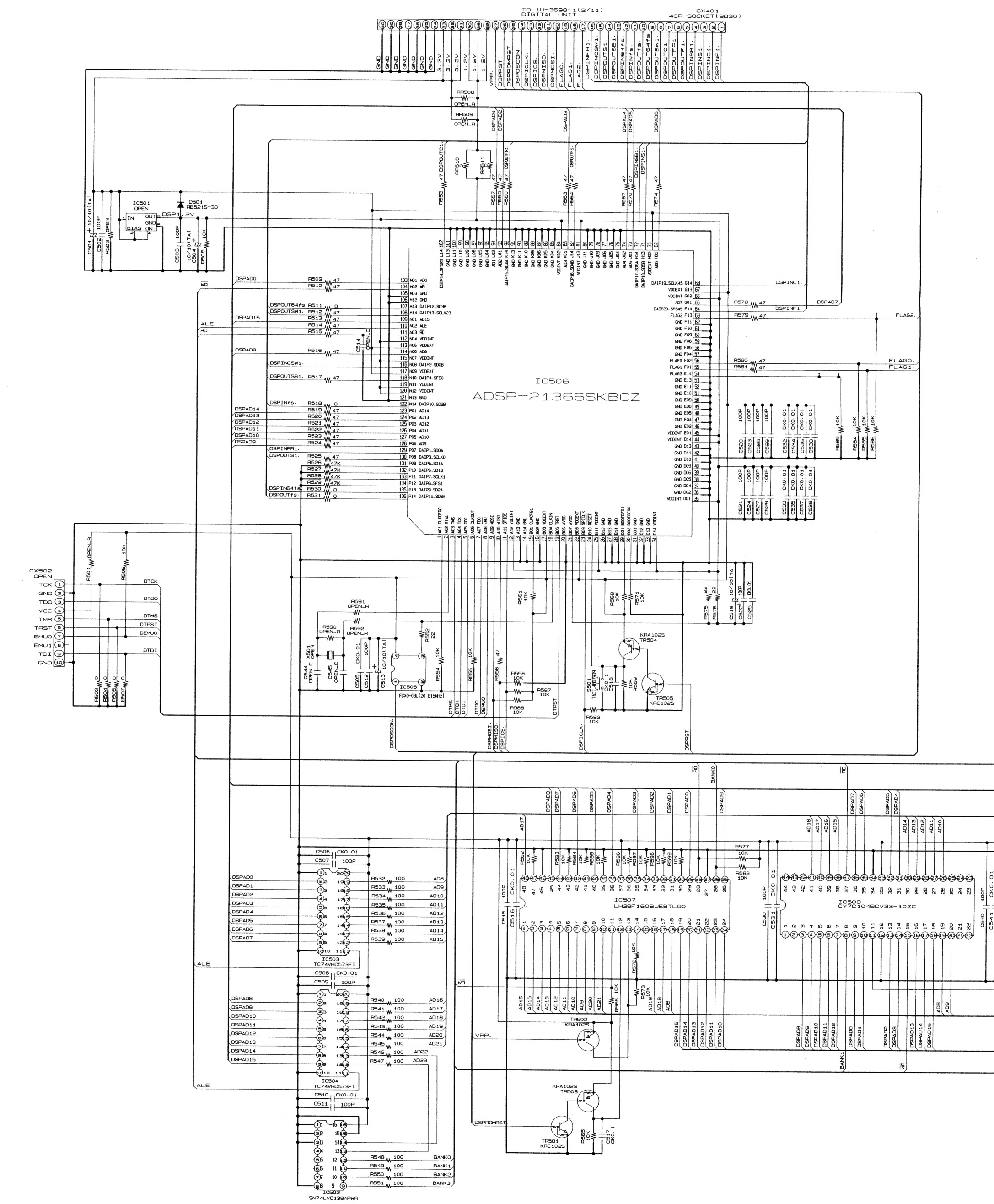
TO 1U-3700-1(2/2)
MAIN CPU UNIT

XM SECTION

SCHEMATIC DIAGRAMS (33/34)
1U-3698-2 ETHERNET UNIT (2/2)

SCHEMATIC DIAGRAMS (34/34)

1 2 3 4 5 6

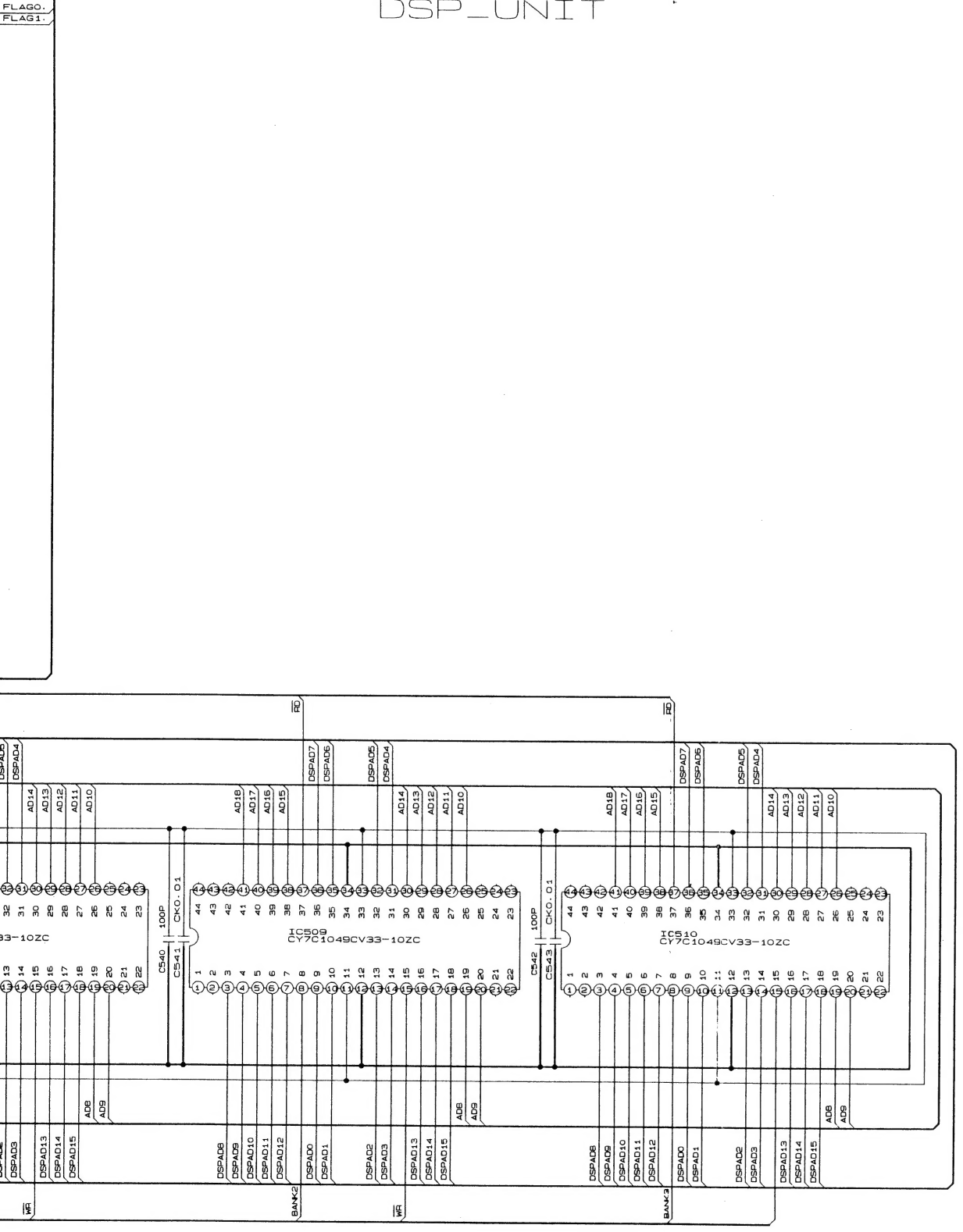


7 8 9 10 11

A B C D E F G H

FLAG2.
FLAG0.
FLAG1.

1U-3698-3
DSP_UNIT



SCHEMATIC DIAGRAMS (34/34)
1U-3698-3 DSP UNIT